



THE SHIP THAT BROUGHT AMERICA ITS TASTE FOR SCOTCH.

December 5, 1933 was a noteworthy day for Scotch drinkers. For it was the first time in 13 years that drinking it was legal. Prohibition was repealed.

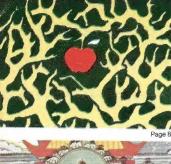
Perhaps even more noteworthy: it was the day Cutty Sark landed in America. A Scots Whisky already legendary in other civilised parts of the world.

Scotch had been imported into this country before, but had also been largely ignored. Cutty Sark, however, with its particular smoothness, soon captured a large and loyal following of Americans with good taste.

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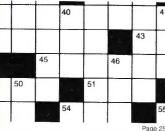
Who would have thought back in 1933 that someday people would be able to cross the United States without changing ships?

"CUTTY SARK." "CUTTY," THE CUTTY SARK LABEL AND THE CLIPPER SHIP DEVICE ARE REGISTERED TRADEMARKS OF BERRY BROS. & RUDD LTD., LONDON, ENGLAND: 86 PROOF BLENDED SCOTCH WHISKY DISTILLED AND BOTTLED IN SCOTLAND: IMPORTED BY THE BUCKINGHAM CORPORATION. NEW YORK, N.Y.





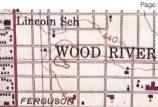












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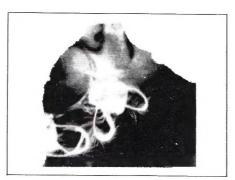
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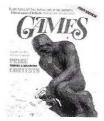
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Scattered throughout this issue you'll find the fragments of a photograph. Can you identify the celebrity who's gone to pieces? If you give up, it's all put together in the Answer Drawer on page 60.





The Cover: A photograph of Rodin's bronze statue *Le Penseur (The Thinker)* pondering the puzzles in the first issue of GAMES. Design by: For Art Sake, Inc.

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Editor's Message

We think most people get a big kick out of coming up with the solution to a problem—whatever their age, education, income, or fighting weight. It's a satisfying feeling to put one's own resources to work on an honest challenge and master it. Yet so often it seems that trying to play the kind of games we must get into as part of practical, day-to-day living isn't as satisfying as it should be; often the subjects are dull, or the stakes too high, or the rules unclear; sometimes too many pieces are missing, or there is no clear winning answer. A world this complex just doesn't seem to allow people many chances to work things out all by themselves for the sheer satisfaction of doing it right.

You won't find GAMES adding to your worries about real or imaginary problems. There are plenty of people around to do that. (Are the ends of your hairs splitting silently as you sleep? Does your wash dazzle your neighbors?) Nor do we think there's much to be gained by our trying to add even more rules to the living game. (Close cover before striking! Pay total due! Do not fold, spindle, mutilate or park here Mon.-Fri. except 7 p.m. to 8 a.m.!)

So we have collected and devised some puzzles and facts and games and contests and pictures and tests that we think do have some satisfying, constructive fun in them—little bite-sized escapes from the serious business of the life-sized world. We invite you and your family to come play these with and against us, to test your knowledge, sharpen your skills, and keep your mind from bagging at the knees.

You won't find everything easy in here. That's no fun either. So dip into whatever catches your fancy and have a good time with it. The answers are in the back pages. When and whether you peek is your business—nobody's watching.

You may have noticed that we divided the Table of Contents into two sections: Articles and Departments. We plan to repeat most of these same Departments in every issue, and we have some ingenious variations on these themes at our typesetter right now for the next issues. The articles we have in store for you will always be different. We have commissioned some firstrate reading that is now on its way from, for example, P.L. Travers, the author of the Mary Poppins stories; from Fred Pohl, award-winning sciencefiction author; from Jon Carrol of the San Francisco Examiner (on Treasure Hunts); and an extrasensory perception experiment you can try adapted from testing techniques developed by Dr. Rhine at Duke University.

We welcome letters of all kinds. We would appreciate hearing what you liked or didn't, about this issue, and receiving your suggestions for favorite puzzles, tests, games and features that you think our other readers might also enjoy. To make it easier for you to give us your opinion of this premier issue we have bound in a postage-paid reply card. Would you take a minute to fill it in and mail it back? Give it to us straight. Your opinions will help guide our planning of future issues.

Speaking of writing to us, in the masthead we have listed the names and addresses of some of the people you may want to write to: letters to the editor, change of address, billing questions, advertising and the like.

We are having a good time coming up with new ways to intrigue and stump you. We hope you will find this magazine too much fun to keep—that you'll write all over it, take it on a trip or to a party, give it to your children, loan it to a sick friend, sweat over it, chuckle at it and chew on it until you are both worn out.

Your play! And good luck with your contest entries.

Allen D. Bragdon

Allen D. Bragdon Editor-in-Chief



September/October 1977 Vol. 1, Issue 1

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"Harold," she whispered softly," I never knew what a winner you were!"

It was late at night and soft jazz music filled the air. Everyone had just left the smoke filled dining room where the potted palms were wilting slowly.

"Harold," she said, "you saved my party!" A tear of gratitude welled up in her left light blue eye.

"It was really the *Rail Baron* game," Harold answered modestly.

"Yes," she said, "It's really loads more fun than cards, much more social than charades. Actually, I've never had such a splendid time."

"Indeed." Harold agreed. "I love you, Gloria, but I know at a party you are two left feet when it comes to dancing. So, naturally, being considerate of you, I brought the *Rail Baron* game to your party.



"And you," she sighed, "won. And I," she said triumphantly, "came in second!"

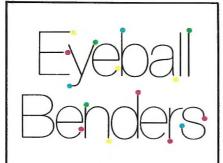
"Well," Harold mused, as he lit a cigarette with his Eaton crested lighter, "when 3 to 6 people vie for the 28 snazzy Railroad Title Cards with the money they get for hauling freight, with an eye toward cornering the better lines while preventing their opponents from doing so in an avariciously clever manner to beat the others out . . . everyone really puts their all into the challenge."

"Goodness, but you're right," she breathed heavily, "and the 12 Superchief and Express Cards and those marvelously exploitive Payoff Charts made *Rail Baron* the social event of the weekend ... Why, Smedley got so excited, he almost blurted out a rather colorful word!"

Buoyed by the euphoria of the super evening, Harold, at last, made the promise Gloria had been waiting for all along, "Monday morning, first thing, I will revisit the Game Emporium in quest of more Avalon Hill games. Because—to play an Avalon Hill game is an exhilarating challenge; to give one a sutle compliment."

"Or, use the coupon below," answered Gloria, breathlessly...





What are these objects? Answer Drawer, page 60

20-23 correct: Fourteen carrols; 16-20: Apt pupil; 11-15: Heavy blinker; 5-10: Optic nervous; 0-4: Take off your sunglasses.



1. Hot dogger's handle



6. A hole in one



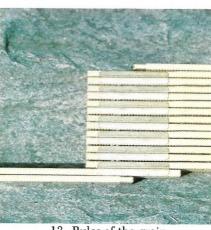
7. Under your nose



12. Mac masher



18. Afrodishiac



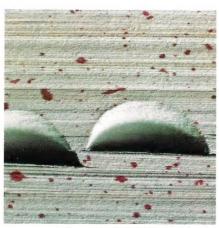
13. Rules of the grain



19. Road blocks



2. Three strikes and you're out!



8. Noah's niches



14. The "Doctor's" jumpers



20. Conestoga mags



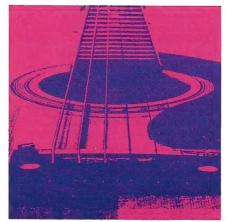
3. Pen pushers



9. "Lend us your ears"



15. Hawaiian gold



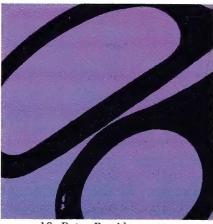
, 21. Good vibrations



4. Spinning wax



10. Hot and cold flashes



16. Betsy Ross' lorgnette



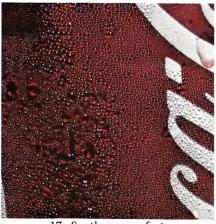
22. Stronger than dirt



5. Hiawathan fiberglass



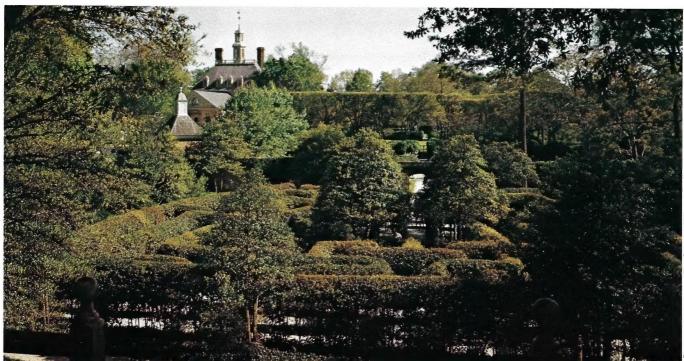
11. Havana honers



17. Southern comfort



23. Blown cover



One of the favorite features of the elaborate gardens at Williamsburg's Governor's Palace is the holly maze patterned after the maze at Hampton Court in England.

THE LURE OF THE LABYRINTH

by Laura King Palmer

Mazes have captured man's fancy for thousands of years. Perhaps the most famous of ancient mazes was the deadly Minotaur labyrinth in Crete.

Built by King Minos at the Cretan capital, Knossos, the Minotaur labyrinth was to be the site for sacrificial tribute in memory of the king's son, Androgeos, who had been treacherously slain in Attica. At nine-year intervals, Athens was required to send seven youths and seven maidens to Knossos. These 14 hapless souls were then released in the tortuous labyrinth designed for Minos by the crafty engineer, Daedalus. With escape almost impossible, victims inevitably wandered to the maze's center, there to encounter its cruelest surprise. For the maze was inhabited by the hideous Mino-



This is a version of the legendary labyrinth which the Cretan Daedalus built.

taur, half-man, half-bull, the mutant offspring of Minos' queen. The Minotaur devoured youth and maiden alike for 18 years. In the 19th year, just before the third sacrifice was due, the intrepid Theseus, Prince of Athens, voluntarily joined the group bound for their demise. Theseus vowed to slay the savage Minotaur, and thus free Athens of its debt.

Upon arrival at the court of Minos, Theseus had the rare fortune to find favor in the eyes of Ariadne, Minos' lovely daughter. She secretly supplied the prince with a sword and a skein of thread before his descent into the labyrinth. With these material advantages and a good ration of pluck, Theseus slayed the Minotaur and successfully emerged from the labyrinth, reversing the route he had cunningly marked by unrolling the thread on his way in. His escape released Athens from its gruesome obligation.

The story of Theseus and the Minotaur may be entirely apocryphal, but it has had great appeal throughout the ages. The Minotaur maze is often used as a symbol for the twisting, treacherous paths of fortune in life and love.

Most mazes don't have the frightening aspect of the Minotaur labyrinth. Hedge mazes suggest pastoral amusement, an entertaining stroll in a country setting, stone benches provided for secluded sunning or a midnight rendezvous. Finding

your way should be fun, not frantic. Certainly that was the intention of the topiary genius commissioned by Louis XIV to create a maze at Versailles. With money no object, it's not surprising that Louis' maze ranked as one of the most extravagant ever built.

Within the maze, 39 groups of fountain statuary depicted various of Aesop's fables. Gigantic figures of Aesop and Cupid marked the entrance, Cupid suggestively brandishing a ball of string. Each of the fable characters with a speaking role spouted a jet of water from its mouth. And a bronze plaque at the base of each fountain told its tale in verse. Water for the fountains was pumped three-quarters of a mile from the Seine by an elaborate device known as the "Machine de Marli." Built about 1680, this mechanical wonder consisted of 14 waterwheels and 253 pumps. The system cost over \$3 million to build and lasted less than 100 years. The labyrinth was destroyed in 1775.

Many of the Sun King's contemporaries shared his mania for mazes, though not everyone built them for pleasure. While Louis dallied in his labyrinthine playground, the German Prince of Anhalt constructed a maze designed to be an allegory of human life. Box hedges were supplemented with trees and rocky grottoes, streams, and caverns. Twisting paths cut deeply into the undergrowth

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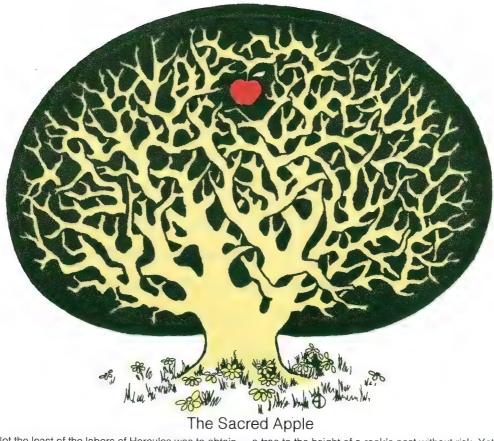


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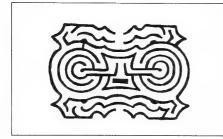
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Not the least of the labors of Hercules was to obtain possession of the Sacred Apples in the Garden of the Hesperides. They were protected by the dragon, Ladon, but an even greater obstacle was presented by the frailty of the apple trees. A 200-pound man may easily kill a dragon, but he may not climb a tree to the height of a rook's nest without risk. Yet Hercules got this apple from the very top of the tree.

To find the way Hercules climbed the tree, start at the bottom of the trunk and ascend the branches, but you may not cross a line.

and were poorly lighted, to heighten the challenge. Plaques describing alarming allegories were posted at frequent intervals along the route. Of course, life is not utterly devoid of charms, and the traveler was graced at occasional turnings with flower-strewn vistas and elegant sculpture.



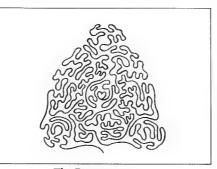
A German maze

The maze enjoyed its greatest popularity in England. William III built a lovely labyrinth at Hampton Court which survives to this day and is a favorite tourist attraction. William's maze was entirely pleasure oriented and originally allowed for amusing encounters within by the use of blossom-laden trellises at points along the path. Thus, though unable to join forces, bewildered wanderers could at least commiserate through flowery chinks in the labyrinth walls.

As mazes are designed with intentions ranging from innocent amusement to

consummate devilry, their routes are accordingly planned. The simplest mazes do not even allow for misturnings. The visitor simply threads his way through at any chosen pace. More elaborate mazes wind back and forth upon themselves and provide many a *cul de sac*. Mazes can take a variety of forms, limited only by the ingenuity of the designer. The Pimperne maze in England was designed to recreate a pilgrim's journey. Since a pilgrimage is undertaken for love, the Pimperne maze was constructed in the shape of a heart.

The hedge mazes of recent centuries may have been easier to produce than the stone forms built by ancient peoples, but keeping them up is considerably tougher. Hedges of privet, holly, or hawthorn require constant pruning and



The Pimperne maze

patching to maintain their mysteries. That's probably why, for the most part, mazes have gone the way of hoop skirts.

But if you yearn for a glimpse of those baffling boxwoods, there are still a few hedge mazes around. One of the best examples in this country is at Colonial Williamsburg. Visitors there will experience that aspect of the maze you can't get from pictures. It's one thing to put pencil to paper and chart one's escape from a picture maze. But a dense privet hedge towering ten feet above you presents a three-dimensional challenge that's another kind of fun.

Losing your way in two dimensions

The Minotaur maze has long since gone to dust, but here's consolation. The color mazes on these pages were specially designed for the first issue of GAMES. Lovely to look at, devilish to divine, these latter-day mazes might have foiled Theseus himself. But for those who dismiss the picture maze as child's play, we have a suggestion. Try following these mazes through a dime-size hole punched in a sheet of heavy paper or cardboard. Livens things up, doesn't it? Answer Drawer, page 60.

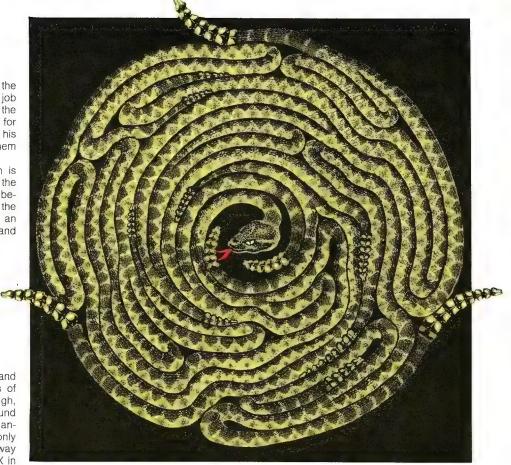
Snakebite

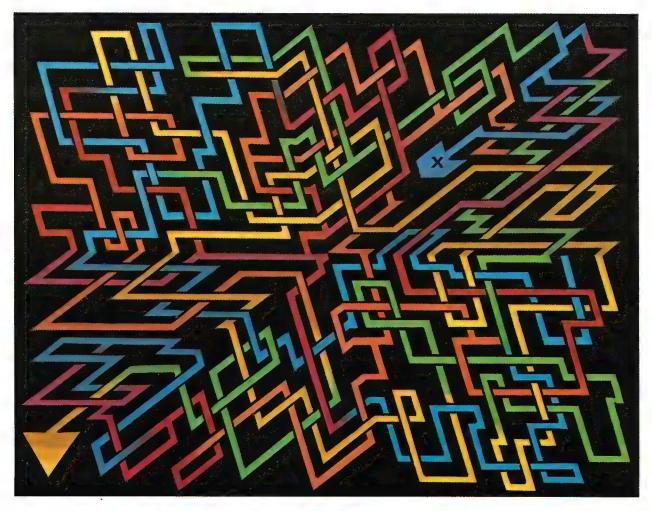
Brusher Mills was a famous character in the New Forest, England, half a century ago. His job was to catch snakes, and he used to supply the zoo with upwards of two hundred a year for feeding to the hamadryads. He used to catch his adders with his finger and thumb, seizing them by the neck or tail.

Here is a nest of adders, one of which is showing his head. This adder's tail is one of the three on the circumference of the circle, but before you seize it you must make sure it is the right one. If you take hold of the wrong tail, an unsuspected head may pop out somewhere and give you a bite.



When sunlight hits raindrops they scatter and sometimes a rainbow appears. Some rays of light bounce off the droplet, some pass through, but some of the rays enter and careen around inside before they finally emerge at different angles. In this maze imagine that one, and only one, crazy ray is lucky enough to find its way out. Can you trace its path, starting at the X in the upper right corner and ending at the lower left.







Game board painted by Pema Dorje in the traditional mode.

"The earth shakes, stars fall, and rainbows and music fill all the quarters of space."

REBIRTH

The Tibetan Game of Liberation

A central feature of the Tibetan Buddhist world view is the idea of personal evolution through the struggle to achieve Buddhahood or nirvana: enlightenment and liberation from the needless suffering caused by ignorance of one's own true nature. The struggle is envisioned as taking place over countless thousands of years, during which time the individual is born, lives, and dies many times over. He may be reincarnated each time in any one of a number of different forms: a human being, an animal, an asura (demon or titan), a god, a plant. The forms of one's lives, including both the



Sakya pandita Kunga Gyaltsen.

The Tibetan world view is illustrated in the Wheel of Life, which shows the functioning of karma and the process of continuing rebirth. The Wheel of Life is a picture of samsāra, the world of birth and death; in it the myriads of living beings are classified in five types, each demonstrating a state of mind that has given rise to that type. It depicts the renewal of existence in twelve symbolic pictures around its edge.

The cycle of birth and death, samsāra, is painted between the jaws of Māra, lord of this realm, here symbolizing impermanence. Within the spokes of the wheel are represented the five major karmic destinations: two above, three below. The higher destinies are god, asura, and human beings. The happiest state is that of the devas, gods of the world of sense desire, whose lives are continual pleasure and sensual delight mitigated only by the fact that they must eventually die and pass to another state. outer conditions and the inner tendencies, are strictly determined by one's karma, a force generated by former and present actions, words, and even thoughts. There is help along the way in the form of special teachings, such as the Tantra or the Mahāyāna scriptures. The journey toward nirvana, far from being optional, is a duty, a necessity of the universal order or dharmathe body of basic principles upon which cosmic and individual existence are based. So, as the Buddhists might say, this is a game we play whether we like it or not and whether we know it or not.

The article that follows, presenting a game based on the "game," is excerpted and adapted from the book RE-BIRTH: THE TIBETAN GAME OF LIBERATION by Mark Tatz and Jody Kent. Copyright® 1977 by Jody Kent. Published by Doubleday & Company, Inc.

What distinguishes Rebirth from other board games is the curious fact that, even when pitted against the most fiercely competitive players, one just can't help wishing one's "opponents" well.

The Game of Rebirth reveals the Tibetan Buddhist map of the universe. The scroll painting or "board" shown opposite lays out a cosmic geography, presenting one's possibilities of future rebirth, and demonstrates the paths to liberation and the forms of enlightenment. In the course of playing this game the players' tendencies toward certain destinations are revealed, and guidelines are presented for their transcendence of ordinary existence and attainment of future states that are free from suffering.

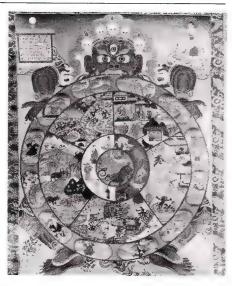
Rebirth was invented in the early part of the thirteenth century by Sakya pandita Kunga Gyaltsen ("Whose Banner is Total Joy"), the great Sanskrit scholar of the Sakya sect. He created it to amuse his ailing mother, for it was considered unhealthy—even for the sick—to sleep during the day.

Later, Tibetans regarded it as an educational game, inculcating in children the Buddhist map of the world and an understanding of the workings of karma. It was also enjoyed as an amusement, and played by young and old, lay and monastic, with great merriment and jesting at the karmic tendencies that are revealed by the cast of the die. Tibetans were very fond of games of dice, and often there was betting on the outcome. In monasteries it was enjoyed on holidays by the elders, and by the young during long afternoons following rituals and study. Mr. Thubten Norbu, elder brother of the present Dalai Lama, describes how it was played during his childhood at school:

The winner was rewarded with a prize of sweets. Sometimes such a game would last for hours, and occasionally it would get very noisy. Particularly fortunate or unfortunate throws were greeted with a chorus of congratulations or groans as the case might be.*

Laypeople were especially fond of playing the game during the summer picnic and camping holidays by the rivers. It is still enjoyed in the Tibetan-culture areas of Sikkim and Bhutan and by refugees in various parts of the world. Tibetans who have not seen the game since exile greet its sight or mention with a laugh and a smile, as though at the memory of happier days.

* Thubten Norbu, *Tibet Is My Country*, as told to Heinrich Harrer, trans. Edward Fitzgerald, (London: Hart-Davis, 1960), p. 93.



	104 NIRVANA ONE OR TWO → BECOME AN OBJECT OF REVERENCE FOR THE REST OF THE AGE.	103 DEMONSTRATION OF MIRACLES ONE OR TWO	102 TURNING THE WHEEL OF DHARMA ONE OR TWO +103	101 BUDDHAHOOD ONE OR TWO	100 CONQUEST OF MĂRĂ ONE OR TWO +101	99 ASCETIC PRACTICES ONE OR TWO - 100	98 THE SETTING FORTH ONE OR TWO → 99	97 ADOPTING A PHYSICAL FORM ONE OR TWO
	96 EIGHTH SUTRA STAGE ONE → 94 TWO → 95	95 NINTH SUTRA STAGE ONE → 94 TWO → 84	94 TENTH SUTRA STAGE ONE → 93 TWO → 84	93 GREAT DHARMA BODY ONE → 92	92 GREAT ENJOYMENT BODY ONE 97	91 TENTH TANTHA STAGE ONE → 84 TWO → 93	90 NINTH TANTRA STAGE ONE → 84 TWO → 91	$\begin{array}{c} \textbf{B9} \\ EIGHTH TANTRA \\ STAGE \\ ONE \rightarrow 84 \\ TWO \rightarrow 90 \end{array}$
	88 FIFTH SUTRA STAGE ONE → 95 TWO → 87	B7 SIXTH SUTRA STAGE ONE → 96 TWO → 86	B5 SEVENTH SUTRA STAGE ONE → 95 TWO - 96	85 REALM OF SUPERJOY ONE → 71 TWO → 73 THREE → 76	D4 SUPREME HEAVEN ONE → 93	83 SEVENTH TANTRA STAGE ONE → 84 TWO → 91	82 SIXTH TANTRA STAGE ONE	81 FIFTH TANTRA STAGE ONE 83 TWO 89
	80 SECOND SUTRA STAGE ONE → 78 TWO → 79	79 THIRD SUTRA STAGE ONE 88 TWO 78	78 FOURTH SUTRA STAGE ONE — 87 TWO → 88	77 LAND OF BLISS ONE → 71 TWO → 74	76 REALM OF JEWELED PEAKS ONE → 78 TWO • 74 THREE → 73	75 FOURTH TANTRA STAGE ONE → 82 TWO → 83 THREE • 81	74 THIRD TANTRA STAGE ONE → 75 TWO → 81	73 SECOND TANTRA STAGE ONE → 75 TWO + 81 SIX → 69
	72 WISDOM-HOLDER OF THE EIGHT SIDDHIS ONE • 67 TWO • 41 THREE 33	71 FIRST SUTRA STAGE ONE 78 TWO 80 THREE 74	70 REALM OF ACTION- COMPLETION ONE-86 TWO-73 FOUR -34 FIVE-74 SIX-71	69 TANTFIIC WHEEL- TURNING KING ONE +75 TWO - 81	58 WISDOM-HOLDER OF THE REALM OF FORM ONE +42 TWO -+49 FOUR -+59 SIX -+41	67 WISDOM-HOLDER AMONG THE GODS OF SENSE DESIRE ONE +41 TWO - 42 THREE - 68 FOUR - 69	55 FIRST TANTRA STAGE ONE → 74 TWO → 75 THREE → 73	$\begin{array}{c} 65\\ \text{WISDOM-HOLDER}\\ \text{OF THE BON}\\ \text{TRADITION}\\ \text{ONE} = 52\\ \text{TWO} = 43\\ \text{FIVE} = 15\\ \text{SIX} \rightarrow 8 \end{array}$
	64 MAHÂYÂNA, PATH OF APPLICATION: "HIGHEST TEACHINGS" ONE → 71 TWO → 49 FIVE → 77	53 MAHÁYÁNA, PATH OF APPLICATION: "RECEPTIVITY" ONE — 85 TWO → 42 THREE → 64 FOUR → 77	52 HINDU WISDOM- HOLDER ONE + 52 TWO + 38	61 URGYAN ONE 89 TWO - 84 THREE 83	50 POTALA ONE 64 TWO 63 THREE 42	59 SHAMBHALA ONE 63 TWO 50 THREE 60 FOUR 49 FUVE 42 SIX - 55	58 TANTRA, PATH OF APPLICATION: "HIGHEST TEACHINGS" ONE 73 TWO 74 THREE 66 FOUR 85	57 TANTRA, PATH OF APPLICATION: "RECEPTIVITY" ONE → 58 TWREE → 58 FOUR → 77
	56 MAHĂYÂNA, PATH OF APPLICATION: "CLIMAX" ONE → 64 TWO → 63	55 MAHĂYĂNA, PATH OF APPLICATION: "HEAT" ONE - 63 TWO - 56	54 MAHAYANA, GREATER PATH OF ACCUMULATION ONE → 63 TWO → 65 THREE → 60 FOUR → 59	$\begin{array}{c} 53 \\ \text{MAH}\bar{A}\gamma\bar{A}\text{NA}, \\ \text{MIDDLE PATH OF} \\ \text{ACCUMULATION} \\ \text{OR} \mapsto 55 \\ \text{TWO} \to 54 \\ \text{THRE } \to 37 \\ \text{THRE } \to 37 \\ \text{FOUR} \to 40 \\ \text{FIVE} \to 15 \\ \text{SIX} \to 8 \end{array}$	52 MAHĀYĀNA, LESSER PATH OF ACCUMULATION ONE — 54 TWO — 53 THREE — 30 FOUR — 38 FIVE — 11 SIX — 7	51 DISCIPLES, ARHATSHIP ONE 52 TWO 48 THREE 37	50 TANTRA, PATH OF APPLICATION: "CLIMAX" ONE → 57 TWO → 66	49 TANTRA, PATH OF APPLICATION: "HEAT" ONE → 50 TWO → 57
	48 CESSATION ONE - ONCE TWO - TWICE THREE - 3 TIMES FOUR - 4 TIMES FIVE - 5 TIMES SIX - 6 TIMES GO TO 52.	47 INDEPENDENT BUDDHA, ARHATSHIP ONE - 52 TWO - 48 THREE - 30 FOUR - 37	46 INDEPENDENT BUDDHA, PATH OF CULTIVATION ONE \rightarrow 30 TWO \rightarrow 47 THREE \rightarrow 37 FOUR \rightarrow 35 FOUR \rightarrow 35 FOUR \rightarrow 35 SIX \rightarrow 29	$\begin{array}{c} 45\\ \text{INDEPENDENT}\\ \text{BUDDHA, PATH OF}\\ \text{VISION}\\ ONE \rightarrow 52\\ TWO \rightarrow 47\\ TWRE \rightarrow 46\\ FOUR \rightarrow 40\\ FOUR \rightarrow 40\\ FOUR \rightarrow 28\\ \text{SIX} \rightarrow 28\\ \end{array}$	44 INDEPENDENT BUDDHA, PATH OF APPLICATION ONE 30 TWO 46 TWRE 45 FOUR 20 FIVE 39 FIVE 39 SIX 27	43 INDEPENDENT BUDDHA, PATH OF ACCUMULATION ON	42 TANITRA, GREATER PATH OF ACCUMULATION ONE - 49 TWO - 50 SIX - 59	41 TANTRA, MIDDLE PATH OF ACCUMULATION ONE 80 TWO 42 TWO 42 THREE 59 FIVE 67 SIX 33
	40 DISCIPLES, PATHS OF VISION AND CULTIVATION ONE — 30 TWO ~ 35 THREE — 28 FOUR ~ 32 FIVE — 31 SIX — 29	39 DISCIPLES, PATH OF APPLICATION ONE → 52 TWO → 43 THHEE → 40 FOUR → 52 FIVE → 28 SIX → 19	38 DISCIPLES, PATH OF ACCUMULATION ONE - 37 TWO 40 THREE - 39 FOUR 52 FOUR 52 FOUR 11 SIX 5	37 PURE ABODES ONE → 64 TWO → 54 THREE → 32 FOUR → 52 FIVE → 12	36 THE FORMLESS REALM ONE → 38 TWO → 17 THREE → 11 SIX → 4	35 REALM OF FORM ONE 37 TWO 37 THREE 38 FOUR 38 FIVE 17 SIX 27	34 MAHĀKĀLA ONE 61 TWO 81 THREE 70	33 TANTRA, LESSER PATH OF ACCUMULATION ONE — 41 TWO — 42 FIVE — 16 SIX → 1
	22 RULING THE EMANATIONS OF OTHERS ONE → 30 TWO → 35 THREE → 28 FOUR + 18 FIVE → 10	31 DELIGHTING IN EMANATIONS ONE 52 TWO 30 THREE 43 FOUR 32 FIVE 22 SIX 12	30 THE JOYFUL HEAVEN ONE → 64 TWO → 63 THRE → 55 FOUR → 54 FIVE → 53 SIX → 52	29 HEAVEN WITHOUT FIGHTING ONE → 30 TWO → 31 THRE + 17 FOUR → 23 FIVE + 12 SIX → 10	28 HEAVEN OF THE THIATY-THREE ONE 29 TWO 17 THREE 20 FOUR 22 FIVE 11 SIX - 7	$\begin{array}{c} \textbf{27} \\ \text{HEAVEN OF THE} \\ \text{FOUR GREAT} \\ \text{KINGS} \\ \text{ONE} & \ast 28 \\ \text{TWO} & \rightarrow 17 \\ \text{THEE} & \rightarrow 23 \\ \text{FIRE} & \approx 18 \\ \text{FIVE} & \rightarrow 10 \\ \text{SIX} & \ast & 6 \end{array}$	26 WHEEL-TURNING KING ONE → 29 TWO → 28 THRE → 17 FOUR → 20 FIVE → 13 SIX → 13	25 BEGINNING THE TANTRA ONE ~ 72 TWO ~ 33 SIX ~ 38
STAR	24 THE HEAVENLY HIGHWAY ONE - 27 TWO - 17 THRE - 15 FOUR - 11 FIVE - 10 SIX - 6	23 BÔN ONE → 52 TWO - 65 THREE - 29 FOUR → 27 FIVE → 14 SIX → 44	22 HINDUISM ONE - 52 TWO - 62 THREE - 13 FOUR - 15 FIVE - 11 SIX - 3	21 BARBARISM ONE	20 THE NORTHERN CONTINENT ONE *28 TWO - 27 THRE - 17 FOUR 19 FIVE 15	19 THE EASTERN CONTINENT ONE - 43 TWO - 38 THREE - 13 FOUR 15 FIVE 13 SIX 11	18 THE WESTERN CONTINEST NE → 38 TWO → 27 THRE → 13 FOUR → 21 FIVE → 11 SIX → 10	17 THE SOUTHERN CONTINENT ONE ← 52 TWO → 25 THREE ← 26 FOUR → 33 FIVE ← 22 SIX → 6
	16 RUDRA—BLACK FREEDOM TWO → 34	15 ASURAS ONE - 28 ONE - 18 THREE - 11 FOUR - 11 FIVE - 10 SIX • 4	14 DEMON ISLAND ONE - 25 TWO - 42 THREE - 17 FOUR - 15 FIVE - 5 SIX - 3	13 WORLD OF THE NÃGAS ONE - 28 TWO - 27 THREE + 16 FOUR - 21 FIVE - 11 SIX - 10	12 DIVINE ANIMALS ONE → 287 THEE → 27 THEE → 21 FOLE → 21 FIVE → 11 SIX → 10	11 ANIMALS ONE - 27 TWO - 17 THREE - 12 FOUR - 13 FIVE - 10 SIX - 5	10 HUNGRY GHOSTS (PRETA) ONE - 19 TWC 13 THRE 14 FOUR 11 FVUE 8 SIX 4	9 LORD OF THE DEAD (YAMA) ONE → 42 TWO → 34
	8 THE TEMPORARY HELLS OR "HELL FOR A DAY" ONE +27 TWO +19 THREE → 14 FOUR → 11 FIVE → 7 SIX → 6	$\begin{array}{c} 7\\ \text{THE COLD HELLS}\\ \text{ONE} \rightarrow 15\\ \text{TWO} \rightarrow 18\\ \text{THREE} \rightarrow 11\\ \text{FOUR} \rightarrow 10\\ \text{FIVE} \rightarrow 6\\ \text{SIX} \rightarrow 5 \end{array}$		5 THE BLACK ROPE AND CRUSHING HELLS ONE 13 TWO 11 THREE - 10 FOUR 7 FIVE 4 SIX 3	4 THE HOWLING AND GREAT HOWLING HELLS ONE ≠ 13 TWO → 10 THREE ÷ 8 FOUE ÷ 8 FOUE ÷ 6 FIVE → 5 SIX → 3	3 THE HOT AND VERY HOT HELLS ONE → 11 TWO - 10 THREE → 8 FOUR → 7 FIVE → 5 SIX → 2	2 INTERMINABLE HELL ONE +17 TWO +10 THREE 3	$\label{eq:constraint} \begin{array}{c} I\\ VAJRA HELL\\ ONE & ONCE\\ TWO & TWICE\\ THREE & 3 TIMES\\ FOUR & 4 TIMES\\ FOUR & 4 TIMES\\ SIX & 6 TIMES\\ SIX & 6 TIMES\\ GO & TO & 9. \end{array}$

The present version, with 104 squares, was painted by Pema Dorje, a young layman of a Nyingma family living in India. [An English translation appears opposite. This is the recommended playing board for non-Tibetans.]

Object of the Game

Each player begins in the "human realm," moving in accord with the cast of a die. Depending on one's karma, one proceeds upward or downward on the board into higher or lower states of rebirth, mapping out the potential destinations of one's future lives. The main classes of living beings in the world and the various regions and philosophies of humanity are in the lower rows. One may be reborn among the classes of gods or demons, ghosts or animals, or in one of the hells. The object of the game is to enter one of the paths to enlightenment and follow it successfully to the top. On the way are magic lands, high meditative states, and tantric attainments. The winner is the first to reach Buddhahood and enter nirvana.

Rules of Play

Any number can play. The start is Square No. 24, "The Heavenly Highway." Each player places a small token on this square. The low roll of the die moves first.

Throwing the die, the first player moves to the designated square. For example, a "two" moves to Jambu Island (square No. 17 on the board). Then the die is passed clockwise to the next player. If this player casts "four," he is born an animal (square No. 11), and passes the die again to the left. On his next move, [if Player 1 should throw a "two" again, he would start] the tantric path (square No. 25), and so forth.

Ten "two's" in a row take one to Dharma body (square No. 93) and full Buddhahood via the tantric path. Ten "one's" from the beginning take one to the same place by way of the Mahāyāna. In a number of squares not all six numbers cause a move. The player throwing one of these "dead" numbers stays there another turn [until he rolls one of the numbers that are listed].

Two of the squares, Cessation in the Vehicle of the Disciples (square No. 48) and Vajra Hell (square No. 1), are traps. Here one must throw "one" once, "two" twice, "three" three times, and so forth through all six numbers [in no particular order]. However, one may keep throwing in the same turn until a number comes up that one does not need. So the player in such a trap should check off the numbers needed as they are thrown, and stop throwing only when he gets one he doesn't need. If, for example, he starts off by throwing two "one"s in a row, he quits after the second and waits until his next

Othello It's how backgammon players can double their fun.

Othello is the new board game that's as exciting as backgammon, as challenging as chess and as simple as checkers.

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turn. [If he then throws yet another "one," he must again pass to the next player; but on any other number, he continues throwing.]

The winner is the first to reach nirvana (square No. 104). From there your token is passed to the stūpa [memorial shrine] above and becomes the object of reverence and devotion.

Explanations of the Squares

A lengthy explanation of each square is provided by Tatz and Kent in the Doubleday edition. For example, the complete commentary for the starting square, number 24, the heavenly highway, is:

We are at the start of the game, in the present human existence, confronted with six roads of different colors. The fall of the die takes us to one of the six karmic destinies: white for the gods, blue for humans, green for animals, yellow for ghosts, black smoke for the hells, and red for the jealous asuras. But karma is not fate; it means activity. Deeds of body, speech, and mind will determine our destination.

The opportunity has arrived, so hard to obtain,

for accomplishing the welfare of living beings;

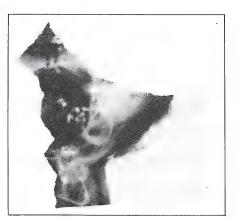
If I fail to take advantage of it,

When will the chance come again?

Of the lowest hell, square 1, it is said: Here the fierce dharma protectors turn upon one in wrath. This is a hell of the most frightful demonic images, the most fearful hell, for its suffering is paranoia rather than physical pain—difficult for anyone else to assuage. Fear for oneself makes it almost impossible to see through the images and escape.

And, on entering nirvana, square 104, we read: The earth shakes, stars fall, and rainbows and music fill all the quarters of space.

//Sarva-mangalam—Good Luck to All//



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Facts of Science

You don't have to be turned on by ergs and amps to enjoy these practical puzzles. Common sense will come in handy if your high school science is a little rusty. For the answers, turn this page upside down.

TRUE or FALSE: Circulation of the air by an electric fan lowers the temperature of a hermetically sealed room.

II.

TRUE or FALSE: To obtain maximum energy efficiency, the flame of a gas stove should be adjusted so that it burns a steady white.

HI

Of the following ways in which a dishwasher consumes energy, which process uses the most energy? A) Motor circulation of water during the wash and rinse cycles. B) Heating of water by the independent home water-heating unit in the basement. C) Further heating of water by heating element in the dishwater. D) Drying of dishes by heating element. IV.

TRUE or FALSE: The weight of an object at sea level is greater than the weight of the same object on a mountain peak 15,000 feet above sea level.

TRUE or FALSE: As viewed by an observer on earth, the tail of a comet indicates the direction of the comet's path. a M

through space.

direction of a comet's tail and its path no necessary relationship between the sun's surtace at high speeds. There is of charged particles radiating from the wind is composed of a steady stream points away from the sun. The solar by the "solar wind," and thus always FALSE: The tail of a comet is caused

ference in weight is very slight. the earth is about 4,000 miles, the difcase, the earth. But since the radius of and the center of gravity of, in this tive to the distance between the object TRUE: The weight of an object is rela-· AI

ready heated dishes to dry in the air. be cut nearly in half by allowing the al-D: Energy used by the dishwasher can 111

flame. blue. A blue flame is hotter than a white FALSE: The flame should burn a steady 11

fact it is not.

is experienced as "cooler," though in perspiration. Hence, the air in the room natural process of heat loss through person's skin, thus complementing the ing air evaporates perspiration from a room temperature. However, circulatfan actually causes a slight increase in FALSE: The friction generated in the 1

GAME CHEST

by Dr. Gini Scott



Dr. Gini Scott, our game reviewer, is a successful game designer and has been evaluating games for several years. She personally plays all the games she reviews and has developed a useful rating system. Games are judged in several categories on a scale of 1 to 5, with 5 being the highest. The games we've included here have received Dr. Scott's highest ratings.

Have you been out shopping for new games lately? Then you've noticed that Monopoly is far from the only game in town. In fact, there are so many games around that you need a scorecard to keep track. The seven games you'll find described here are recent arrivals. Each has certain elements which make it a little unusual. *Beyond Words* comes in book form. *Nourish* and *AC/DC* are truly educational in addition to being fun. Several, including *Othello, Feudal*, and *Whosit*? are classical favorites with a twist. If you've been looking for a great gift or a fun idea for your own evenings at home, you may find your inspiration here.

Othello around \$9 from Gabriel Industries, 200 Fifth Avenue, New York, NY 10010.

Othello is one of the most popular games around today. After sweeping Japan, it has recently been licensed in the U.S. and is now making a commercial sweep here too. The excitement is certainly justified, since Othello is an excellent game. But ironically, Othello is virtually the same game as Reversi, with a few minor rule changes, and Reversi has been around for a long time-from Victorian times in England in fact. Moreover, Reversi has been introduced in various forms in the last few years by assorted publishers, including Mattel (as Turning Point), and by Four Generations and Products of the Behavioral Sciences as Reversi. In these previous incarnations, it never really took off. But now, with masterful packaging, a history of record sales in Japan, a lot of promotion, and a new name, Gabriel has made the game go. (Not Go.) The game Othello/Reversi is a very simple and elegant one, which permits much opportunity for strategy. The game is played on an 8x8 matrix, and each player has 32 playing discs, which are white on one side, black on the other. One player plays black; the other white. Four starter discs are placed in the center of the board to begin play. Then each player in turn places one disc on the board with his color up and must outflank the opposition by surrounding one or more rows of his opponent's discs (there can be one disc in a row) with discs of his own color. After doing so, he flips each of the outflanked discs to his color. And that's all there is to the rules. The winner is the player with the most discs of his color on the board when all the discs have been played. The strategy comes in planning where to outflank to flip the most discs or to maneuver pieces to the strongest power positions on the board. An excellent, highly recommended game, Even if it is a virtual copy of an old game, this is the best presentation of Reversi I've seen.

(*Editor's Note:* As part of their grand scale promotion, Gabriel Industries imported the Japanese national Othello champion, Fumio Fujita, to play demonstration games across the U.S. He even played against a computer programmed for Othello at Cal Tech. On the other side of the Atlantic, Dr. N.J.D. Jacobs of Geneva has prepared a similar computer challenge for Reversi. He has offered to refer

GAMES readers to the 15 or so computers in the U.S. which will soon be running his program. For information, write: Dr. N.J.D. Jacobs, CERN, CH 1211 Geneva 23, Switzerland.)

Complexity: 2; Degree of Strategy: 5; Skill Level: 1; Adequacy of Rules: 4; Originality: 2; Presentation: 5; Durability: 5; Replayability: 5

Boggle around \$6 from Parker Brothers, 190 Bridge St., Salem, Mass. 01970.

This is a fast-moving word-game race in which players try to find as many words as possible in a 4x4 arrangement of letter cubes, using only adjoining letters in sequence. Boggle has adapted the familiar find-a-word format into a quick, easy-to-learn, and challenging game for 2-6 players. Boggle can be played again and again, as the letter cubes are shaken and reset before each round. After the toss, everyone races to discover as many words as possible and compiles a list of them. When all duplicates among players have been eliminated, the player with the longest list wins. Reportedly, the game is now very popular in New York, and that's not surprising. It's a good, well-presented game.

Complexity: 2; Degree of Strategy: 5; Skill Level: 1; Adequacy of Rules: 5; Originality: 3; Presentation: 5; Durability: 5; Replayability: 5

Nourish around \$7 from Fun With Food, P.O. Box 954, Belmont, CA 94002.

Designed by two professional nutritionists, Nourish is a series of card games about nutrition. These games are largely variations on classic card games like Gin, War, Hearts and Crazy Eights, but they are played with a special deck of cards. Each card lists a food and various nutritional information. Players attempt to acquire various assortments of nutriments. For example, in "Nourish and Flourish," which is played like Gin, each player tries to collect a certain number of cards from each of the four main food groups—milk, meat, fruit, and vegetables. (And in case you don't know the food groups, there's a chart to tell you what food belongs where.)

The game book lists 11 games that can be played by 1-20 players, depending on the game. Nourish is a delightful way to learn about food.

Complexity: 3; Degree of Strategy: 1-3; Skill Level: 1-2; Adequacy of Rules: 5; Originality: 4; Presentation: 4; Durability: 5; Replayability: 4-5

Feudal around \$10 from Avalon Hill, 4517 Harford, Baltimore, MD 21214.

A chesslike game in which two players maneuver pieces representing Medieval royal and military ranks. Unlike chess, each player secretly deploys his men in his kingdom before the game starts. A screen is used for this purpose, then removed before the battle.

Complexity: 4; Degree of Strategy: 5; Skill Level: 2; Adequacy of Rules: 5; Originality: 5; Presentation: 5; Durability: 5; Replayability: 5 Whosit? around \$7 from Parker Bros., 190 Bridge St., Salem, MA 01970.

This is a simplified deduction game in the Clue-Sleuth family. The twist to Whosit? is that certain players, representing mystery characters, are permitted or required to lie about their identities. Twenty assorted character cards means that any number can play. Sample characters include a rock star, a spy, a censor, a gangster and a starlet. Players use question cards to make queries. The winner is the first to correctly guess the identities of all the other players in the game.

Complexity: 3; Degree of Strategy: 3; Skill Level: 1-2; Adequacy of Rules: 5; Originality: 4; Presentation: 5; Durability: 5; Replayability: 4

AC/DC around \$4 from Ampersand Press, 2409 McGee Ave., Berkeley, CA 94703.

You guessed it! A game about electricity. Using cards that represent various energy sources, users, connectors, fuses, and switches, each player (2-4) tries to build the largest circuit he can. More intricate circuits win more points. Opponents try to disrupt incomplete circuits with "shock" or "short" cards. The construction of circuits is totally realistic, so this game is educational as well as a good deal of fun.

Complexity: 4; Degree of Strategy: 3; Skill Level: 2-3; Adequacy of Rules: 4; Originality: 4-5; Presentation: 4; Durability: 5; Replayability: 5

Beyond Words around \$3 from Pantheon Books, 201 E. 50 St., New York, NY 10022.

Unlike most other games, Beyond Words doesn't come in a box, but in a book. The book consists of seven novel word games, each of which is named after a major literary figure, because of an affinity between the game and the author. For example, "Joyce" is named after James Joyce, because, as in his books, "the words go on and on." Each of these games includes some rules followed by a dozen playing sheets on which the game can be played with pens or pencils supplied by the player. I found all of the games of interest, with "Joyce," "Poe," and "Dickens" my favorites. In "Joyce," each player tries to make the longest possible words and get to the finish line first, traveling around a pathway of squares. Meanwhile, his opponent places letters in hurdles which he must use on his way. In "Dickens," players try to form words which go in many directions. (Like the namesake's plots.) "Poe" is a sleuth game in which each player tries to deduce his opponent's secret word. Some of the games are for two players; others for 2-6. If you like a game-book format, there are two earlier volumes in this series you may find of interest as well-Beyond Tic Tac Toe and Beyond Solitaire-also by Sid Sackson.

Complexity: 4; Degree of Strategy: 4-5; Skill Level: 2-3; Adequacy of Rules: 5; Originality: 5; Presentation: 5; Durability: 4; Replayability: 5





Seven years ago, Ena Fielden was asked to find an original print and the source of this photo of W.C. Fields doing an imitation of Queen Victo-ria. This is the story of how she tracked a print down and found out the photographer's found out the photographer's name and approximate date it was taken.

The Penguin Photo Collection

Why Was This Picture Taken?

By Ena Fielden

Picture-sleuth Ena Fielden of Penguin Photo Research recently related to us the following true story that defies a fully satisfying explanation:

In January of 1970, I received a letter of inquiry from a large publishing house. Enclosed was a fuzzy photostat of W.C. Fields in a hilarious gag pose as Queen Victoria. "We have looked just about evervwhere to no avail," the letter anxiously concluded, "PLEASE see if you can turn this up for us." In order to reproduce the photograph commercially, my client needed not only a clear print of the original photograph, but also the date of the photo and the name of the photographer. I appreciated the "PLEASE," and besides, this photograph pointedly recalled an incident from the early days of my career as a picture researcher. It was in London, and my boss, the picture editor, was fond of reciting the mildly pompous admonition: "Never give up a search for a photograph, unless it is a request for an authentic picture of the Queen of England standing on her head in the center of Piccadilly Circus." Although the Fields photo seemed a perilously similar task, it also promised to be entertaining. So I agreed to try to track it down.

A routine check at the local library yielded less than expected. Many pertinent books were out in circulation, presumably to W.C. Fields cultists. So I headed for the library at Lincoln Center. A lucky choice, as it turned out, because I

located the photo almost immediately in short-lived publication which staggered they literally powdered in my hands, full page was devoted to my photo of looked at Fields in hundreds of gag poses, Fields, captioned "Great Impersona- still photos, news photos, and publicity tions." This suggested to me the possibili- portraits. At last I glimpsed him as Queen ty that the photo had been expressly Victoria. Unfortunately, not the photo I commissioned by Stage. But where was was looking for. I'd found instead a reprothe photo credit? There was none.

magazine's staff would remember the Chasen's Restaurant. photograph at a distance of 30 years. But on the chance, I jotted down the names Harpo Marx as Blue Boy, and I believe, of the publisher, managing editor, and Garbo as the Mona Lisa. Harpo bought art director. Alas, the publisher, Alexan- the Decker original for his home. But ruder Ince, and editor Alexander King (the mor had it that Fields was too thrifty to famous raconteur and one-time picture spend the money for his likeness to Briteditor for Life) were no longer living. ish royalty. But to my delight, the art director still resided in Manhattan. I got her story by up, and, hallelujah, under the photo was phone. She vaguely recalled the picture, the name of the photographer-Will but told me that King had the responsi- Connell. bility for selecting all photographs. I asked about the disposal of material pub- geles and Hollywood phone books for his lished in Stage and learned, not surpris- number and address. No luck, so I ingly, that one way or another it had all phoned L.A. information. Was the direcgone astray following the magazine's tory out of date? No, Connell was not listbankruptcy. "One morning," the former ed. art director reminisced, "I came to my office and my desk was gone."

next step was to find out the photogra- carried his picture and a full-page layout pher's name, as my client was eager to of his work. From his picture, Connell apavoid any copyright problems.

I got hold of every available clipping an issue of Stage Magazine. Stage was a on W.C. Fields, some of them so old that through a total of four issues before it col- "snowing" untidily around my seat on lapsed in February of 1941. In one issue a the lovely red carpet in the library. I duction of the John Decker portrait of I thought it unlikely that any of the Fields that hangs in Hollywood's fabled

Decker had painted Fields as Victoria,

Finally the "other" Victoria showed

My next step was to check the Los An-

Back to the stacks. This time I uncovered a clipping on Connell. Clearly a suc-Now that I had located the source, my cess in his day, a 1937 Herald Tribune peared to be about 30 years old in 1937,

which would make him 65 or so at the time of my investigation. The description of Connell as a "creative photographer of incisive mind and satirical impulse" certainly jived with his Fieldian version of Victoria. Now, if the Trib saw fit to devote a whole page to this man, I figured, perhaps he was known in New York as well. But a call to the Press Photographers Association failed to turn up his name in either current or back membership lists.

Surely the Tribune must have had some kind of file on him, no? But among the many dearly departed I encountered on my capricious trail of research was, of course, the late Herald Tribune. Yet the archives of a once major newspaper could scarcely have gone to the four winds in the manner of Stage's. I contacted the Newspaper Guild and was put through to a former Tribune Editor. He reassured me that the Tribune files were extant, now housed in a special annex at New York University. But he was unable to supply the married name of the woman who supervised the files. He promised to call back with that information in hand. He did indeed call back, and I was thus able to phone the married lady at her special number. Her news was not what I'd hoped for. Only a few outstanding photos were left in the files. She had known almost every photographer who worked for the Tribune and the name Will Connell did not ring any bells. As a favor, I asked her to check anyway. She returned to the phone and, with some surprise, told me that she had located a portrait of Will Connell with an address on the back, but no date. It was an L.A. address, and I jotted it down.

What had happened to the rest of the *Tribune* files? It seemed that the best of their photographs had been turned over to *Life* Magazine. "You can call *Life*," the pleasant married lady proposed, "but I understand they are kept under lock and key somewhere and are hard to get. Good luck!"

Life, however proved unexpectedly helpful. They supplied a 1948 address for Connell, as he had worked for them that year. The address was the same as the one I had unearthed from the *Tribune*.

I immediately sent off a letter to Will Connell. Black ink marked the envelope—"If address changed, please forward." I also airmailed a note to the nearest thing I could find in Hollywood to a Photographers' Guild, asking if they knew the whereabouts of Will Connell. "Answer yesterday," I pleaded, "Thanks for the anticipated co-operation."

If Will Connell were alive and well and living in Los Angeles, what a happy ending this would be for Ena Fielden's Fields Follies. If his letter came back stamped "Deceased," I'd have to trace the rights through his estate.

Field's face grinned devilishly in my thoughts. Somehow this whole story re- 5.

minded me of the myriad of bank accounts Fields opened during his lifetime under various names and in various locations. Finally, not even Fields himself knew what name went with what location.

My mailings brought no positive response. Connell had temporarily disappeared. (Later that year, after I stopped working on the case, I got word from the American Society of Cinematographers that he was dead.)

Although my main line of research was finished, I remained fascinated by the photo. Why was it taken? During a final obsessive search through my memory for some logical link, the image of Diana Barrymore popped into my head.

Fields was a great friend of the late John Barrymore. In 1942 Barrymore's

daughter, Diana, made her motion-picture debut at Universal Studios in a film entitled *Between Us Girls*. Diana was 21 years old. In one short scene of the movie she appeared as the 80-year-old Victoria. It was a triumph of makeup art and received a lot of publicity. Fields was also working at Universal. Could he have posed for his version of Queen Victoria to amuse his friend's daughter on the set? Looking through two volumes of stills from *Between Us Girls*, I found several Fields photos but none were Will Connell's shot.

Maybe it *was* just a publicity photo. Or, the most likely explanation, though dishwater dull, is that it had been set up and photographed specifically for *Stage* Magazine after all. But I still wonder.

W.C. Fields was not the only actor ever to impersonate a demure demoiselle. Below are six other wolves in ewes' clothing. See if you can recognize the stars behind the disguises. And if you're a real movie buff, name the film in which each actor "skirted" his scene.



Answer Drawer, page 60



1. OPERATION SAIL

Tall Ships on Parade!

The Fabled Tall Ships Of The World

In leading magazines this year, you saw the big black and white picture entitled "TALL SHIPS."

Now—American Ajax offers this colorful print of the New York Harbor "Operation Sail," plus five more new selections of the ships themselves, or six in all for the price of five (see grid box below).

Frame-aluminum section in silver or gold (gold \$1.00 extra).

Start your collection of Soldwedel works with one or more of these handsome lithographs. All lithographs are 21" x 28".

(Remember, the signed prints continue to increase in value.)

1. OPERATION SAIL An historic gathering of the "TALL SHIPS" for Operation Sail celebrating the bicentennial year of 1976 in the U.S.A.

2. U.S.A. "EAGLE" Host vessel for the 1976 U.S. Operation Sail gathering, owned and operated by U.S.C.G.

 $\ensuremath{\textbf{3.POLAND}}$ "DAR POMORZA" Poland's contribution to the tall ships that spread good will and worldwide peace.

4. GERMANY "GORCH FOCK" The winner of the 1976 STA/ASTA Race from Bermuda to Newport, R.I.

5. DENMARK "DANMARK" A rare view of the Danish training ship shortened down for a full gale off Cape Horn.

ITALY "AMERIGO VESPUCCI" Representing the pride of Italy and the Italian people everywhere.

Picture#ab	ove	Check your choice					Pri	ice Below
	1	2	3	4	5	6	PRICE	TOTAL
Signed & framed							\$55.00	
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framed							\$25.00	
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2. U.S.A.



3. POLAND



4. GERMANY



5. DENMARK



6. ITALY

AMERICAN AJAX, INC. DEPT. ENGLEWOOD, NEW JERSEY 07		
Total Quantity	Total Enclose	d \$
Okay to charge it. Fill in cred	it information. I	Please No C.O.D.'s
American Express	🗆 Bank Ameri	card/VISA
□ Master Charge interbank		
My credit card #		
Expiration date		
Signature		
Name		
Address		
City	State	Zip

N.J. res. add sales tax. Foreign orders add 15%



Millionaire: A word-and-number prize competition

FIRST PRIZE: A Fairchild Video Entertainment System, the most elaborate TV computer game currently on the market. FOUR HONORABLE MENTION PRIZES: A year's subscription to GAMES.

We're going to go out on a limb. (That's where the fruit is.) We'd like to invite you to play a little game with us, but we confess, we have no idea how it's going to come off. In fact, your guess is as good as ours—and your answer may very well be better than any we can think of. Here's how to play:

1. Assign numbers to the letters of the alphabet as follows:

A = 1	E=5	1= 9	M = 13	Q=17	U=21	Y=25
B=2	F = 6	J=10	N = 1.4	R=18	V=22	Z=26
C=3	G=7	K = 11	0 = 15	S=19	W = 23	
				T=20		

2. Then think of a word. Let's take BED and CHAIR as examples.

3. Now, replace the letters of the word you picked in step 2 with the number values given in step 1. So BED would be 2-5-4, and CHAIR would be 3-8-1-9-18.

4. Finally, multiply out all the numbers in the word to determine its official value. The product of BED (2x5x4) would be 40, and that of CHAIR (3x8x1x9x18) would be 3,888.

The object of the game is to find a word that produces a score of exactly 1,000,000 (one million), or else a word that comes closer to that figure than anyone else's. That may seem like a big number, but you'd be surprised how quickly the score mounts up. In fact, some 5letter words, many 6-letter words, and most 7letter words far surpass that amount. Try BOT-TOM, for example. That's 2,340,000! (A pocket calculator is a big help but not essential.)

8

Any single unabbreviated word found in Webster's Third New International Dictionary (Unabridged) is acceptable. There are no other restrictions: internal punctuation, capital letters, and so on, are all fair game, provided they're listed. Postmark deadline is 10/1/1977. Winners and their words will be announced in the issue after next. In the event of a tie, the word with the most letters wins, and if we receive multiple entries with the same word, the earliest postmark wins. 2

Warning: We found this simple-minded, "innocuous" exercise highly addictive. One good word leads to another. In fact, we probably should have heeded the advice of King Solomon; "... a fool multiplies words."—Eccles. (10:14). There are lots of tricks and shortcuts, but we'll leave you to figure them out for yourself. (We doubt anyone will hit one million on the head or even come very close.)

Clip or copy this entry blank and mail it to: GAMES MAGAZINE MILLIONAIRE # 1 515 Madison Avenue New York, NY 10022

Zip.

My word is___

Total word value____

Name_____ Street Address__

City____State

Void where prohibited by law.

Lloyd Kawamura stands in the top 1% of the world's competing chess players. He started playing seriously in his native Hawaii at age 15 and three years later became state champion. By 1974 he had fought his way to master ranking. Currently he plays, teaches, and writes about chess full time.



... [The] principal characteristic [of chess] seems to be—what human nature mostly delights in—a fight... but a fight in which the scientific, the artistic, the purely intellectual element holds undivided sway. Emanuel Lasker, Ph.D.

Chess Pieces

by Lloyd Kawamura

Unlike many other popular games, chess does not include the element of luck. When two chess players sit down to "play," they start out with even armiesno one gets dealt a bad hand. There are no hidden cards, no dice, no spinners.

So why, if everything is out in the open, hasn't someone looked at the various possibilities and figured out a winning strategy, a "best move"? The answer is simple. There are well over a quarter of a million possible positions after each player has made only two moves! The possibilities in chess still baffle our computer technology; to this day, any ranked chess master would defeat the best chess-playing computer in the world. And does the chess master look at every possibility? Hardly. That's why masters lose to other masters.

And so, chess has its element of suspense, that quality of excitement that makes the game worth playing. You never know what your game will be like when you start it, or what moves your opponent will make. The result is that every game of chess boils down to a struggle between two players, neither one with all beat another beginning chess player.

the answers, each one dependent only on his skill at the game.

World Champion 1894-1921

A good example is the Fischer-Spassky world-championship match of 1972. Boris Spassky, the world champion at the time, had an impressive record against the very best players in the world. On the other hand, Bobby Fischer, who was destined to win the championship from Spassky, had earned the highest rating in chess history. For very good reasons, this was called "the chess match of the century." And yet a curious thing happened when they played each other: both players made an uncharacteristically large number of mistakes. For, together, they created so many possibilities on the chessboard that neither player could consistently play the best move. But Fischer played well enough to cause Spassky to slip more often and more seriously, so he won. That kind of confrontation tends to have a familiar ring for people involved in competitive occupations, from professional sports to business to politics. The following pointers may or may not apply to your own life, but they will help you

For Beginners

Want to improve your game? Here are a few tips that have helped many beginners start their games more effectively.

1. Castle early. Tuck your most critical asset, your king, safely in the corner out of the reach of your opponent's pieces. Once castled, don't move the three pawns in front of your king without a very good reason.

2. In the beginning phase of a game, make only one or two pawn moves. Move pawns if they are helpful towards bringing out your pieces with real fire power, such as your bishops, but don't push pawns impulsively and rely on them to win your wars for you.

3. Bring out all of your pieces to maximize your options; don't move one or two pieces over and over. Whenever possible, it will train you to recognize capture opbring out a new piece with each move. portunities.

Basic Training

Giveway chess: The object of this exercise is to give away all your pieces, including your king, which is captured like any other piece. Of course, there is no check, and you win when you have no pieces left or cannot move the ones you have (if you have a pawn left, for example, but can neither take a piece with it nor move it to a legitimate square).

Capturing is compulsory, and some people call missing a capture a forfeit of the game. If you have a choice of captures, you may play your choice. Otherwise all the basic rules of chess, including piece promotion, apply as usual.

This basic training exercise may sound as effective as policing the barracks, but it will sharpen your eye for battle because

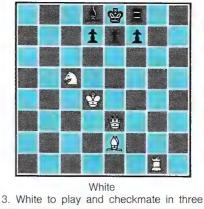


1. White to play and checkmate in three moves



2. White to play and checkmate in two moves.





moves Answer Drawer, page 60

Jack Luzzatto, widely acknowledged to be the doyen of constructors, is crossword-puzzle editor of GAMES. He's also a frequent contributor to the New York Times Sunday Magazine, the author of many puzzle books, an accomplished poet, a former gag cartoonist, and a lover of tennis, country music, and Bach. He sold his first puzzle in 1927 to Margaret Petherbridge Farrar, then of the New York World, and he fooled the panel on "What's My Line?" in 1962. Among his other credits are "one wife, three boys, one girl."



What Makes Crossword Puzzles Tick?

by Jack Luzzatto

The crossword-puzzle industry is booming these days. Magazine racks and bookstalls bulge with the latest compilations, and there's scarcely a newspaper that doesn't publish a daily puzzle. An "industry source" estimates the annual earnings of constructors and editors alone at close to half a million dollars. Not surprisingly, crossword puzzles run the gamut from the shoddy to the sublime. What is curious is that many solvers can't tell the good from the bad. So long as a puzzle presents a reasonable challenge and the answers fall into the squares at a lively pace, no one complains. And yet with so much in print, it really pays to be discriminating. There just isn't enough time or energy to do every puzzle you run across, so why not insist on getting the most enjoyment for your effort. Level of difficulty is not the point. A puzzle can be fairly easy and still be a good puzzle. And a sterner test may turn out to be totally devoid of grace and ingenuity. In fact, these hardcore headscratchers are sometimes the worst offenders. So, what are the things to look for before you pick up your pencil and take that leap of faith?

1. Scan the clues. There should be at least a handful of truly intriguing definitions. If so, chances are your wheels will already be turning, and the rest of our guidelines won't matter to you. But wait. Is there a heavy ration of clues like "Persian fairy: Abbr. (variant)" or "Philippine two-toed sloth: feminine plural"? There's more dross than gold in a puzzle like that. A heavy reliance on the arcane is usually an indication of the constructor's limitation and/or laziness.

2. Look at the diagram. Is it full of three- and four-letter words? If so, pass it up. On the other hand, if you see a nice selection of 10- or 15-letter words streaking across the page (or, better yet, big words that interlock), odds are you've struck paydirt. Keep an eye out for long words running side by side, a treat for the solver and a sign that someone has taken extra pains to create a superior product.

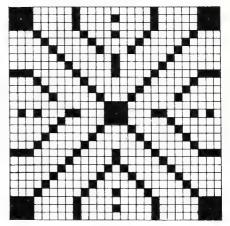
These two tests should be sufficient for you to make your assessment. (Another point to look for might be the name of a well-established constructor or editor atop the puzzle, but unless you are a real aficionado, most names won't ring any bells.) Quit here and you're already miles ahead of most solvers. But the best crossword-puzzle editors look a bit harder before they accept a puzzle. First they make sure that the key words-the essence of the puzzle-are inherently interesting and consistently topical, or that the puzzle is based on a clear idea and is not just a jumble of miscellany. Then they check carefully to see whether the pattern made by the black and white squares is pleasing and symmetrical. It's a fairly strict rule that a diagram must look exactly the same right-side-up and upside-down. The best constructors see to this as a matter of course, since they know they won't get away with asymmetry. Usually, too, a diagram forms a perfect square, having the same number of spaces across as down. Most often this number is odd-why, I don't know-with a 15x15 grid being the standard minimum (you can't pack enough goodies into a smaller puzzle), and 25x25 a maximum (larger puzzles risk boring the solver and are hard for the typesetter to lay out on the page).

Next, an editor counts the black squares to judge how hard the constructor has worked. Since the diagram is designed before the word interlocks are devised, a lot of black means the puzzlemaker is either a hack or on vacation. Pioneer puzzle editors established a rule in the 1920's that stands to this day: no more than one sixth of the squares may be black. A puzzle with much more than that is a sure reject unless it has some special redeeming features. (Other born losers are diagrams that incorporate words of less than three letters or contain areas which are completely marooned in black squares.)

A related concern is the word count. The total number of words in a puzzle, across and down, is an important index to

I once received a crossword puzzle from a convict in the Midwest. He wanted five bucks for it. It was an awfully clever composition and I nearly decided to publish it, but it had a strangely familiar feeling to it. So I did a little checking, and sure enough, the puzzle—word for word—had already been published many years before. In fact, *it was one of my own*. No wonder that guy was behind bars. the constructor's skill. The average word count for a 15x15 puzzle is 78 to 84. The finest job ever done had only 64 words. Experienced editors can see these relationships at a glance and rarely bother to count or calculate.

Now. You be the connoisseur. Take the diagram below. It's from a puzzle that recently appeared in a large national publication. What do you think of it? (Hint: It stinks!) How many serious weaknesses can you find in it? See the Answer Drawer, page 60, for half a dozen.



Of course, every rule has its exceptions. In certain extraordinary interlocks, the constructor's main problem is to consistently come up with good words. My own standard is this: is the word within the ken of an average adult? Is it current and not ridiculously archaic? Is it too technical or specialized? Is it interesting? Sometimes only a weirdo word will get the puzzlesmith out of a trap (usually of his own devising) so that he can finish the blasted thing. In moderation, that can be forgiven, as long as there is a good authority for the far-out word. But, most importantly, this word should be crossed by easier words, to make the puzzle solvable.

That brings me to a pet subject of mine: zombis. You know what a zombi is. Something that isn't buried but should be. I propose that the crossword-puzzle world bury its zombis. They have labored overlong and like all such matter still above-ground, their presence can be only too readily detected with a charnel, not Chanel, scent. I refer, of course, to dead words eking out a posthumous existence in puzzles. *continued page 24*

continued from page 23

Way back in the Twenties, the crossword—then called word cross—offered these words quite innocently, and their novelty kept the public from realizing that the zombi situation was gaining a foothold. Not the entire public. Every now and then some practical critic would write to a puzzle editor or constructor and ask: "When would anyone ever drag *that* word into a conversation? And where did that word ever appear, except in a crossword puzzle?" Good question. The kind a sensible person asks. It's time to see what can be done to eliminate dead words from puzzles.

This does not refer to trite words. A word like Erie unavoidably turns up in puzzles because it's so useful. I mean really dead words. There may be a few professors around, who, upon finding their mislaid footnotes, shriek "Eureka!" like a Greek. But I'll betcha no professors anywhere will raise their brimming goblets and scream "Rivo!" This is a word lurking in Webster's International No. 2 (and by golly, they saved it from No. 1, but coming to their senses, the dictionary makers dropped it from the current No. 3). Add it to the scrapheap, sirs and mesdames. Pronounced reev-oh, and devoid of etymology, it is defined as "an exclamation used in drinking bouts." At your next such bout holler "Rivo!" and see what happens. But don't blame me.

This is not to say that I have never sinned in this direction. You can probably find infrequent puzzles of mine that use words rescued from limbo, but they are few and growing fewer all the time, and at present have reached the vanishing point. It meant work. Like doing the impossible. It takes longer to do it this way. But I'm willing, and the solver benefits.

It is now time to clean the *inee* off our arrows. If we can't find some real live curare, let's just throw stones. Inee, which is in Webster No. 1 (the unabridged from about 1909 to 1930), never made it to Webster No. 2 (the unabridged from 1930 to about 1960). The etymology is that it's a French transliteration of an African word for an arrow poison made from the apocynaceous plant, Strophanthus hispidus. I guess hispidus means that it's hairy. A better candidate for decent burial could hardly be imagined, but it's still around. Besides, Africa may go nuclear any day now, pygmy archers of the Zaire army notwithstanding.

When was the last time you said hello to a friendly Indian with a greeting like "How, *netop!*"? Pretty long ago, I daresay. Yet this zombi creeps into puzzles. A Narragansett word meaning friend or kinsman, it's so handy, and it appears in Webster 1, 2 and 3. Maybe it was culled from old New England documents. It seems a likely candidate for oblivion.

Also ready for retirement is the word

esne, the serf who's been around too long, but this is historical and they won't boot it out of the dictionaries. It's just that it's a puzzle cliché. Like *ers*, the bitter vetch, we'd be better off without it.

Slang words are consigned to the scrapheap with great celerity. Who wears the cat's pajamas today, and who's the bee's knees? Only some forgotten "sheik" of yore. That's what ordinary people do, dump old slang into limbo. But the dictionaries hang on to slang like grim death, so this sentence, which probably made sense in the 19th Century is offered for your amusement. "I can see by your garb that you're so oofy with oof that it wouldn't pain you to slip me some rhino, tad." Howzat again? Well, with them snazzy threads you gotta be loaded. Slip me some bread, kid. Oof is slang for money. Webster 3 says it probably comes from Yiddish; rhino is old British slang; tad old slang for kid. Amusing, but no longer in use. Since what I say doesn't go, tad, you'll probably be seeing these words again and again-in puzzles.

Sweeping out all this dead matter might hamper constructors who have leaned comfortably on such props for years, making some good oof out of the process. But rhino isn't everything. I'm all for quality control of the product. Our language is so rich, alive and growing that use of zombi words is a poor substitute for quality.

CAN YOU OUTSMART OUR COMPUTER?

Don't be too sure. The computer built into Parker Brothers' new game Code Name: Sector[™] is capable of making thousands of calculations per second. It's as powerful as early computers that filled entire rooms and sold for millions of dollars. And, while it gives you clues to track down and sink a hidden electronic submarine, it also helps the sub escape and counter-attack. That's the catch that makes every game a real challenge. Whether you're playing alone or against others, your toughest opponent is the computer. Code Name: Sector[™], the new electronic board game from Parker Brothers. It's a game with a mind of its own.



©1977 Parker Brothers Division of General Mills Fun Group Inc., Salem, Mass. 01970



PENCILWISE SEPTEMBER-OCTOBER

These 16 pages have all kinds of puzzles, easy and difficult, to help keep your mind from bagging at the knees. Answers on pages 62, 64,

15

31

46

61 62

65

68

18

34

51

21

40

54

45

60

DOWN

2 Sword handle

equipment

Short drink

The Parthenon

Craftsmanship

Intense wish

3 Hockey

is here

Crossword Puzzle #1

25 26

14

17

20

29 30

33

39

42

48 49 50

53

59

64

67

1

5

7

8

q

6 Fly



Marion Lathrop of Middleport, N.Y., grandmother of eight and a retired librarian, attended Skid-more and Wheelock colleges and now solves about 14 crossword puzzles a week. "I thought this one was fairly easy, but 59 Across was a real stumper

Illustrated Crossword

Armchair Safari





- 14 Lawful
- 15 Indignation 16
- Slip, brassiere or pantie



- **19** Endures 20 Military strongholds:
- Abbr.
- 21 Urge on 22 Greek peak
- 24 Obtain
- 25 Cattle
- 27 Sign of box-office success
- 28 Flowers grow in them





- **33** Intense feeling **34** Billiard stick

- 35 Phlegmatic, apathetic **39** Stationary rowing device,
- for example
- 42 Occult 43 Friend
- 44 Fairy-tale monster
- 45 Hockey players
- 47 Districts in London and New York
- 48 Passport endorsement
- 51 Loped 52 Price of
- something 53
- spree 54 Currently
- fashionable 55 Small French
- coin San Francisco 56 hill
- 59 The groaning board
- 61 Scooter 64 Fencing
- weapons

69 Sidles

- 65 Historic age 66 - Major,
- Dog Star constellation
- 67 Groove 68
- 13 Trials

11

18 The time of your life

12 Fathered

10 Unnamed

person Wise saw

- 23 Fin on a fish's back
- **26** Disinclination to move
- 27 Grow more
- precipitous 28
- Weeps noisily 29 Noah's eldest son
- 30 Like a polished floor
- 31 Swine genus 32
- And so forth: Abbr.

34 Roman statesman and orator

- 36
- 37 Small case worn on a Japanese girdle

38

37 36

57 56

58

by J.L.

10 11 12 13

28

44

63

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22 23

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- 38 Sandra and
- family 46 Commander-in-chief: Abbr.
- 41 Serve as crew
- 46 Maniacs
- 47 Origin
- 48 Politician's support
- 49 Unsuitable
- 50 Cavalry sword
- 52 Murmur sweetly
- 54 Tableland
- 55 Antlered deer 57 Dust Bowl
- refugee
- 58 Shakespeare's queen



62 Mouths, orifices 63 Wicked

GAMES September/October 1977

FIND THE PRESIDENTS

Circle the names of all 38 presidents hidden in this maze. They may read forwards, backwards, up, down, across, or diagonally, but always in a straight line. Not all the letters are used. Words often overlap, and letters may be used more than once. There are more puzzles like this one throughout the Pencilwise Section, and the same rules apply.

PERSRELYTYLRPSONDGIO POLKSYATNDNALEVELCDG TRUAGEANANIYDENNEKGT RNWJEFFERSONNOSLIWOR FORATAFEGEROMLLIFRFE EMRDSTTLEVESOORFREOT 1 COAEHNCKEMKXOBQAWRR NAFMADISONICICHRGOPA ORISMRLNLYCANATJYHOC STHARD INGRAJOHNSONBW NNERUBNAVTFOUNDTMEUL HOWESTCBAAORXKNLCSRY OSONMROUPFRNOOCEOIOT .1 IHPADLCIODIXLGVPERM LRFVDTNYELNIKCMETEFP SRGTAYLORKNHMSQSVCOL EAKRQLBUCHANANAOAMST YHSUJMIDEEGDILOOCSJA AWFMNOSIRRAHBHBRVKAE HOENAMURTHMFHKITOAXB

GARFIELD ARTHUR CLEVELAND **B. HARRISON** MCKINLEY T. ROOSEVELT TAFT WILSON HARDING COOLIDGE HOOVER F. ROOSEVELT TRUMAN EISENHOWER **KENNEDY** L. JOHNSON NIXON FORD CARTER

GROWING CRAZY

It will take thyme to find the common names of 33 flowers, herbs and plants hidden in all these letters. Whether you are an adult, orchid, or wandering jew you have a brilliant fuchsia as a word finder.

AZALEA BITTERSWEET CACTUS CHRYSANTHEMUM DAFFODILS DILL **EVERGREEN** FENNEL **FERN FUCHSIA** GLOXINIA HIBISCUS HOLLY HYACINTH IRIS IVY JASMINE

NGPSHACTNIMRAEPSFNWE NAAGUIEAIGLMZEPWQXVZ PPRBFTDTHXGLAVENDERA GLSCJTCCYZLCLPDURMFY DQLIIEBAHMONEHOGBVQH ZREIKSGSCRXZAPRZGLDZ AYCTNSVLTIAVERBENAD G DFVLEIDUBFNLENNEFAUT USIEOJASMINEOAROTHN HCULWPRDATAPQRAOIEII CHRYSANTHEMUMPSNAPBM RSZMRRZYKSYCAALOMNIR OILDEPMLOVNNPRIMROSE YAPFTEIRILLEODWARTCP В GMHTTSZLPSSPVXRDRUP Α SNOIFWANDERINGJEWSE I, B L B Q C D G A D N L E F O H I A P L CRLLIJQHMIDRUNERHUFG E IHYACINTHAETTOARCNI DAFFODILSPZFENBMSOJK

LAVENDER LILY MARJORAM NARCISSUS ORCHID PARSLEY PEPPERMINT POINSETTIA PRIMROSE ROSE SPEARMINT TEA THYME TULIP VERBENA WANDERING JEW

WASHINGTON J. ADAMS **JEFFERSON** MADISON MONROE J.Q. ADAMS JACKSON VAN BUREN W. HARRISON TYLER POLK TAYLOR FILLMORE PIERCE BUCHANAN LINCOLN A. JOHNSON GRANT HAYES

Crossword Puzzle #2

ø

¥

	1	2 3	4	5		ien.	6	7	8	9	10	11	fra.	theat.	12	13	14	15	16
Eliabte	17	++-			18		19							20					
Flights	21	+				22								23					
of Fancy		1						ļ			00		27				28		
	24			*	25					*	26		21			3 ¹	20		
Flying thrills	29		e ³⁰	31			-			32					1. A	33			
at the tip	34	35	2	36			37	38	39		-	40			41				
of your pen			43			44					45		46					Arties for period	and a
					40		49					50		E1			52	53	54
	- Sandardine	47			48		49					50	*	51			52	55	04
ACDOSS	55 56					57		-	58				59			\$	60		
ACROSS 1 Make into law	61						*	62								63			
6 Speaks one's mind	64				65		66	-						-A-	67				
12 Turkish general			_	1								70		71					
17 Engines 19 Cloudy	68		*	69							6	70		/					
interstellar mass	72		73							*	74								
20 Triangular plane wings	75	70	3		*	77	-		-	78		1	79					- Zana	den carte
21 Plane flyer, no hands!		80	,		81		82	-				83		84		4		85	86
23 Swimming	87 88	89				90		91					92	-		93			
animals 24 Gain altitude	87 88	89				90	der.	91					92		.*	93			
25 Oiled plane	94		-1	95			96		100			97			98	-64	99		
struts 26 Fuel indicator	100		÷ 101					10-	102	103	104			÷.	105	106			
28 Babe's teammate	107	10	8			109		110	-	-				111					
29 Royal Auto.		+	_										114						
Club 30 Japanese brew	112				No. of Street, or other	113							114						1
32 Spread perfume	115			1		116								117					
33 Bitter substance 34 Article in stock						-					-	-	-	-					
36 Channel to the ocean	51 Flies slowly	64 3	ihe			73	Falle	ow me	amhe	re	8 /	Appo	rtion			102	Soar	ьd	
40 Aircraft for	off-course		Fraining	J		74	Fello	ws in	n	15	87	Copt	er pa	d		105	Raise	ed	
42 Coup —,	55 Where to get bargains	•	'plane'	' on				ious l of no				Swin Out (Trasi Velo		of level
military	58 First to fly the Channel, 1909		he grou Recaptu				Japa	n			94	Divo	rcees	;			plane	e fligl	nts
takeovers 44 Raises	60 Word form for	68 (Cats					oleum roduc				Prose prose	~	out no)t		Set a	patte: fire	rns
objections 46 Short takeoff	wolf 61 Where office		Long Ja guitar	ipanes	e	79	Deli	neate	or			Ûnio Conf			ما			ll ear ul pla	ante
and landing	letters are		George				Orch	estra			100	Apro	pos			116	Fryin	ng pa	n
47 Man's name 49 Pretty sudden	62 Tanking up 63 Withered		narried Animos		;		Too right	youn	g to f	ly	101	Stagg blund		g		117	Ralp Eme	h — rson	
DOWN 1 Use as a model	12 Familiar Saint		'; all ship			52		t plan t of s				Some The			3		Conk	out uld b	e
2 Advisory for	13 Flight height: Abbr.	1	Masefie	ld		53	Pow	er of		0		unrea	0				airma	ail	
pilot and navigator	14 Starlight girl		f you'v em all			54	2	erday trails				Nag Pilot	's du	sting			Grou Poke		ehicles
3 Splitting headache	15 Flying-carpet caliph	1	ose 'er Aircraft	n!		55	Old	violir	15			targe Platf	t	0		96	Take	off o	
4 Hair dressers	16 Take up	1	pparat	18			India			-	78	Peak	to fl			98	Aboy		un rlie <mark>r i</mark> n
5 Musical syllable 6 Never again	18 Feed the flames		Envoy: How to			57		ws o ls on				highe Desig					the to Drea	ext mboa	its?
7 Pumpkin or	20 Menu for competitors	5	storm			59	Tres	tles b	efore	e		space	3	-		102	An o	ld pi	
squash 8 Flyer of the Nile	21 Harshly bitter		Left of Reliable			62		akeot n bod		a	~ -	Exter Made		attem	pt		Row	or ra	
9 No or none, in	22 Homer hit		Took to		-		plan					at Busir			•		The	-mel	1
law	27 Puts to work31 Judicial inquest		Baham				city	_	anisi			confe	edera	cies:			Sex :	for	
10 Fulsome eulogy in Paris	32 The wild blue		playgro 3-eleme				Cop Esta	ycat blishi	ment			Abbi Let's		k to		111		ybody whe	

11 Devils incarnate

GAMES September/October 1977

yonder

vacuum tube

foe

27

that

Cine-Maze

by Gerard Mosler

A movie title or an essential word in a movie title is hidden in the maze of letters here. In fact, there are 26 such titles or parts of titles you can find by consulting the thumbnail clues for better identification. The words read forward, backward, up, down, or diagonally but they are always in a straight line and never skip letters. We have started you off by circling LADY, the answer to question number 1, in the diagram. The words overlap and letters may be used more than once. However, not all of the letters will be used.

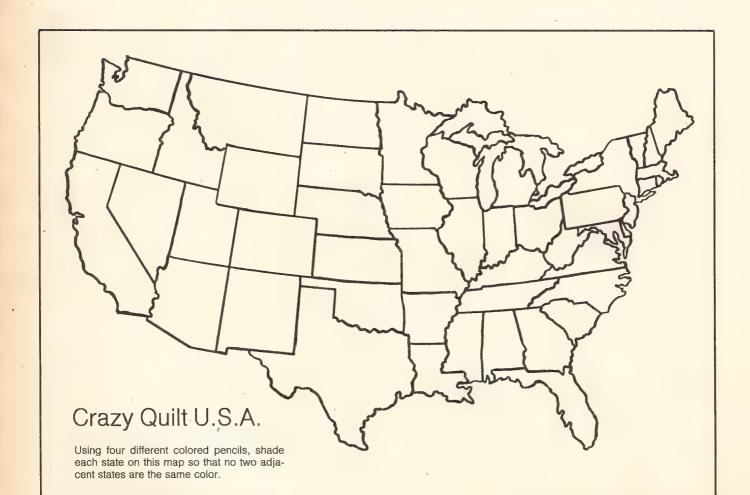
You're a good movie sleuth if you can identify 16 or more titles correctly.

CLUES

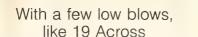
- 1. Funny, isn't she?
- 2. (Over)towering, isn't it?
- 3. Scenes from a union meeting
- 4. A great seasoned ace
- 5. No longer at this address
- 6. Down under, that's where she is
- 7. Bruce in one word
- 8. To the last
- 9. A moving little thief
- 10. It's easy to count to five
- 11. Let's tempt Mimi!
- 12. In Paris at last!
- 13. Two days so lost . . .

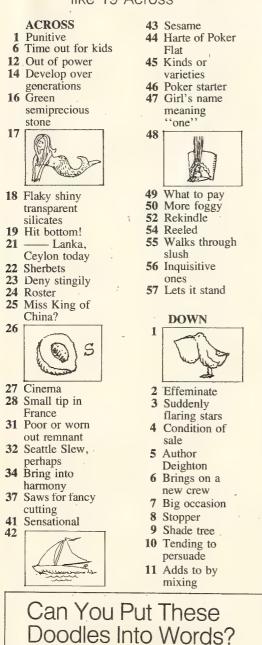
- 14. ... as if gone in the air
- 15. Adventure for Davy Jones
- 16. Forty-two's in season
- 17. Schizophrenia in California
- 18. Christ is tops
- 19. The apes' abode
- 20. The moon's made of pasteboard
- 21. Dark, handsome, and walking
- 22. A porpoiseful day
- 23. It breaks all hearts
- 24. A slow bang of the ball
- 25. 'Silent' colorful monster
- 26. Stones gathering no moss

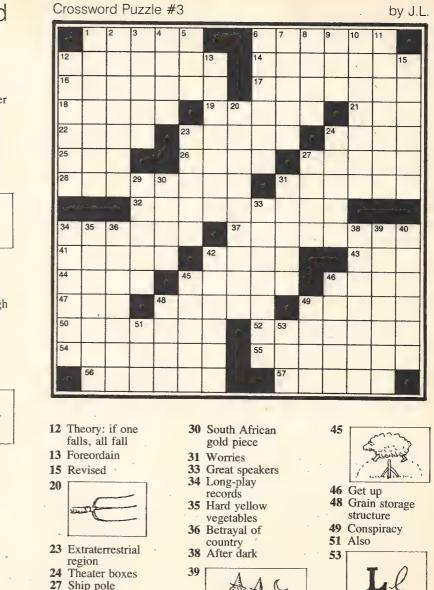
DETOREL I B OECGMNFA RM LSTNSUEC PNLAEPREK OSTIULDR H EROLLINGRN 1 TCPARAFTDEE Ν CETEGEWNNPT R UIPERCPVIUM E PDPDNEKEEWSE AENODIESOPRA PSUMMERYNNEL



Illustrated Crossword

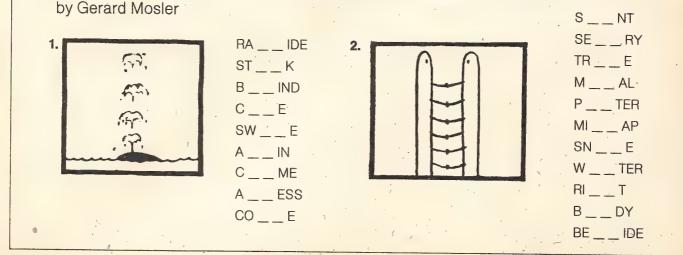






First let your imagination go and try solving the DOODLES, but if you get stuck-or even if you don't-turn to the word skeletons beside each DOODLE and try to find the missing parts to complete the words. The missing parts, read across and downward, will give you our interpretation for the DOODLES.

42 Planks



27 Ship pole

29

BE A SPORT

Sports figures with names like Korbut, Klammer, Bjorn Borg, Ilie Nastase and Kyle Rote are almost impossible to spot in this kind of puzzle. That's why we chose them. Hard, isn't it? DR. RENEE RICHARDS O.J. SIMPSON HANK AARON JIMMY CONNERS BJORN BORG OLGA KORBUT WALT FRAZIER

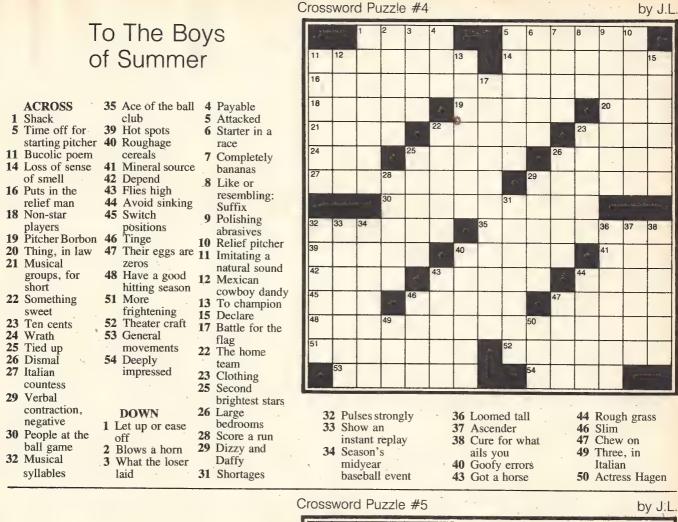
FRANZ KLAMMER MUHAMMAD ALI KYLE ROTE KEN NORTON CHRIS EVERT MARK SPITZ BOBBY ORR JOHNNY MILLER ARNOLD PALMER PETE ROSE BRUCE JENNER ILIE NASTASE VIRGINIA WADE

A E K A R E L L I M N M C Y A N B G O E A T R T D N G B L Q O Z Z L E A N SARWBMEAPSYNNHOJPGFORLHLTEIZDRRENEEWP HRSIRSBGFAFTEOEAIBYIEAARKNGPUOIAITGNV S P V E A R A J D E Q U A R S N B M S O I W J N D K Z S N N C T N Q Y U B BAITPEVIRGINIAEPEAMYRAZXNVOHAHHENNXYO D L S O V R H N W A D E B S P W M Y W Y E O R A A R O N N D A L G N O S R IAJNIJOPNLZQSHEBEISTCAHDTELCXNRTIGFMO NREMLAPDLONRAHPSAMSIEOPNRBDZMADMARKZE PWALTFRAZIERNOQCGRHJGHNNVEOFQQSPITZXL CNINLQZDVEELSBUSETIBOATNWCSAOZVCPTREM EABZPNOONMUHAMMADALIKAUSONMMSGCTSOMIC R F F E O E R E M N I V S L E V I P E C B O N I B R Q L V E T R E X T X R L F L D L V N A H B A R Y R S E I N E Y R A C I E I S J U D L E M E E H E AGLOOOLTSRENITAASADTEKCTUQSDNNPVINMFS TUBROKOEEMWCXSWXAYLAECOREFAYLNIEESETO S L M Z Z F C N O T R O N N E K S Z Y R I R I P S S T A H I Q S N L F H N AIVNRUNHRSCPAPEQIKREEBOBBYORRHNIOUGER V U A S R E E F K U H O E D B S E G M L E D T S T I E X O O E R K O X S O DRRBJOJNBOPMNCVJEAYIHGOZEBDOCMRHMBITJ FYEIPEAGERLDFCDRCKINETORRZECDQACCGROB

NOTE-ABLE PEOPLE

The Eagle-eyed will dare Earth, Wind and Fire to rescue the Grateful Dead and 20 more contemporary music makers hidden among these letters. Hint: One group is spelled out diagonally *and* backwards. STEVIE WONDER JONI MITCHELL PETER FRAMPTON FLEETWOOD MAC EARTH, WIND & FIRE EAGLES BEATLES GRATEFUL DEAD HOT TUNA LED ZEPPELIN ALLMAN BROS. SANTANA GEORGE BENSON TRAFFIC RUFUS BONNIE RAITT JAMES TAYLOR ROLLING STONES ELTON JOHN PAUL SIMON LINDA RONSTADT KINKS CROSBY, STILLS, NASH & YOUNG

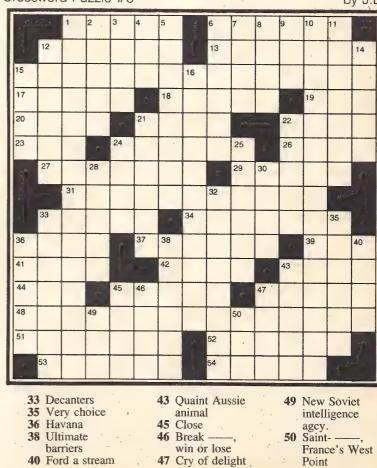
SHRBGDONTQSVDCXGHPLJMKNVWZLCRIHNOSPLE EFLGPKMQOWALLANKUBENSTEINJUNIORQSVXLJ LXLMQRXPAULSIMONGMPZCIFFARTATMGFELTOL G R O S E V E V T F K N A D I L N W F G H C A D B Z T Q X V R T A O H A L ABOTSRENOOZGEORGEYKCIMMIZNODGARBNNLEN ELOTHOTZUBENSONDKAKEBONNIERAITTEDHRQO IKRAPEUIPPERPWETIMUBLINDARONSTADTLAPL E X A M E T N B N N O T X T Z F Q B D T A N A D S T L I C K S H O O P E R MURDALAPREHSTEVIEWONDERTONLAEVAHEWWON STFCDXDZOOMERETRAIYLDWOUJTIIZZAERSI EH Y D D D U M O L C U D L B L M E R N R L O B B O F T N X I K R R E D D J Y ZEJONIOPPOSTSFUDTDUNMOLLIUGKEPISASLED A B A U R T Z E R A V A L A F I H F S C R O S B Y U S S D N A N Y N O T Z LEMDNCELVTBENPARECDSTILLSKTDEKFAKMADE L N E Q O H V I I U E B A T N T A P K N A S H E O S O B K Q Q L E S T S P M S S P L E C D R E S U S S A T S H R Y O U N G N Z N C B U V B Z O A U P ATTAYLORDSEVERLNLANTURESUNEXLVDZXQLTE NECEILGSTANZGADEALLASEGNATSURAPRVSTNL BROSHTMORFLIATEDNOMOLOSFOTNEMEJDUJLEI NIEOOUSPQZDLPIKRENSRAEPHPETERFRAMPTON



Pioneering Spirit

	ACROSS	36	Quaint corn
1	Heavy theatre		Trails of sna
6	Agents to		
-	impress	37	Chop
	seamen		Hard feeling
12		42	Persuasive
14	Agent to	42	ways
	impress Simon		
	Arbiter	44	Civil War
15	Maine to		remnant
	Florida	45	0.0
17	Isinglasses		here
	Eared seal (or	47	Went to cou
	end of a traffic	48	All a pionee
	circle!)		asks for
19	Chem.	51	Draftee
	compound	52	Grommet
20	Smoother		Fries
21	Photocopy	54	Dismal
22	OPEC nation		
23	Race the		
	engine .		DOWN
24	Second best .	1	
	Family rivals	_	serendipity,
	Ease of strain		1492
	Watering holes	.2	Double-tann
31	Soak the	-	leather
	customer	3	
33	Spanish beef	0	town
	Bumpkins	4	
04	Damprino	-	Diennish

Quaint corn	5	Explain a text
Frails of snails		Originate
Chop	7	Raise kids
lard feelings	. 8	One
Persuasive		land
vays	9	Viet tribesman
Nut for soda Civil War	10	Wagon
emnant	44	westward
Pago Pago is	11	Cool tombs (or
lere		sad Rebs in
Went to court	12	disarray!) Matched
All a pioneer		Worlds of
sks for		innocence
Draftee	15	Oil prince
Grommet	16	Sing Sing
Fries	21	
Dismal	-	and pleasure
× 7		Japanese
DOWN		migrant to U.S.
oyage to	24	Stay home for
erendipity,		company
492	25	Bruits abroad
Double-tanned	28	Boat covers
eather	30	New
owa college	2	Testament
own Blemish	32	book Ransacked
JOHISH	54	Kallsackeu



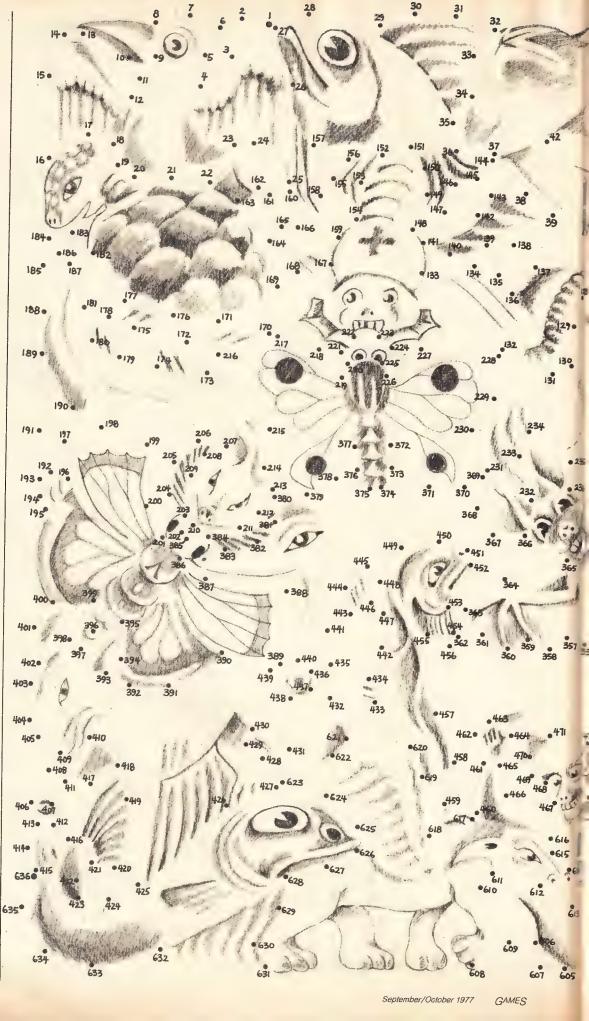
Point

Nonperiodic Tessellation*

Use a sharp pencil to draw a continuous line through all the numbered dots in order from 1 to 636. When you have finished, refer to page 64 in the Answer Drawer for a reproduction of the original drawing which we adapted to create this puzzle. If necessary, redraw any incorrect lines; then use a soft pencil to fill in every other figure like a checkerboardleaving the eyes white-to fully reveal the fantastic figures hidden in this intricate tessellation.

* A careful juxtaposition of nonrepeating elements into a coherent pattern.

M.C. Escher's *Vlakvulling I.* Courtesy of the Escher Foundation, Haags Gemeentemuseum, The Hague.





Phrase-Maze

Friends

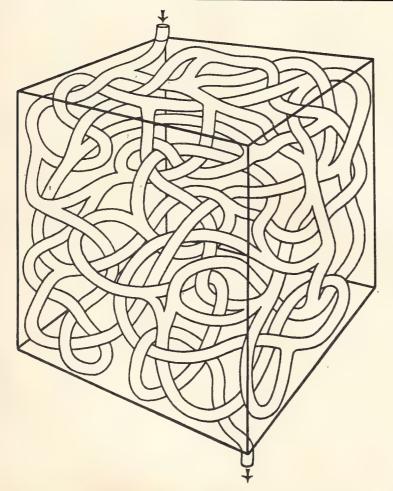
The name of this puzzle is the subject, as well as the first word, of a hidden quotation. The letters of each word are in the proper order. The first letter of each new word starts in a square next to, or diagonally adjacent to, the last letter of the previous word. The final word will be immediately followed by the name of the author. The author's name has been circled.

The words may be arranged vertically, horizontally, or diagonally, and they may be spelled in any direction.

A word to the wise: You may find more than one quotation. However, only the correct one will lead you to the author.

These spaces show the number of letters in each word of the quotation, plus the author's name.

FRIENDS _____



The Plumber's Problem

FRIENDSWMYOBJCK ERQUERALOHBLONL

WHIRJGRYNRROHSI SCNETHEREBB/ NOON

GRHBNUCPYLOONKG TPUNDDJOESLTBRS

ETNERASLNORAODA

NROBEI B/I/DEPTHAN

FOFRIQBCIOSLWSD

ESTABOXINCETEER

OMAWRAOTXUSOATE

GDEKSWHEJRALEWI WETUOJDMGELTSOP

TTHIGSENWP

PAGOLBS

LAMUNÌ

ILSKMNP

Mr. Fawcet was a jobbing plumber, and he had been told to examine a tank full of flexible vinyl pipes which some apprentices had been joining together for practice. His instructions were to re-move all unnecessary piping, leaving only the shortest way through for a flow of water. Which pipes did he leave?

Note: This is a "solid" maze, the paths running in three dimensions. They are drawn in perspective, so where you see that one pipe runs behind another you may follow it round. You do not stop, as you do in flat mazes, just because a pencil line on the paper happens to cross your path. A pencil is not much help in solving this kind of maze, but if you must use one, thoroughly examine the tangle of pipes by eye first. Then mark lightly so you can erase false starts.

Crossword Puzzle #6

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71

81 82

86

92

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105

109

112

41

46

by J.L. 18

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15 16

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104

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56 57

91

14

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25

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80

85

90

108

115

44

54

Murphy's Law

Which is, of course, anything that can go wrong will!

ACROSS

- 1 Robert Burns river
- 6 Aim of the game?
- 10 Fired summarily
- 14 Make a sum 19 Gangland's
- heavy hitters 21 Gulls, terns,
- jaegers - pound, put 22 on weight
- 23 Offsetting
- 24 With skeletons uncloseted
- 26 Designer Cassini
- 27 Scads
- 28 Aura of evil
- **29** Piercing tools 30 Sea transp.
- officer 31 Town near
- Miami, partly abbr. 33 Believer in God
- 35 ----- polloi
- 36 Witches for
- Macbeth
- 38 Dispenser of funds
- 40 Easterly point

- 41 High musical
- kev 43 General
- hardware
- 44 Evening parties
- 46 Picasso
- 47 Not AWOL
- 50 Single 51 Relinquisher
- 53 Blithe spirits
- 55 See, as a
- reference
- 58 Dawn goddess

- 59 Wanders
- 61 Headed again
- 62 Set of
- chromosomes 63 Lie to the
- Indians
- 67 Alto
- 68 Sing like a bird
- 69 Errant veep
- 70 Patriarch in
- Genesis: Abbr. 71
- Smaller 72 Popeyed ones

- 74 In a sluggish
- way 76 Wise man
- 78 Island-dwelling
- 80 Falcon hunter
- 81 Doubtful
- 84 Cause of gray
- hair? 85 In Coin, but not in Cent 86 Ecology
 - monitoring agcy.

51 Re-viewed 52 Dispossess

54 Arcaro

56 Rat fink

57 Polishing

abrasive

60 Any English

county 62 Fast clip,

64 Ambiences

65 Plaster art

72 In succession

75 English title

77 Puff of wind

73 More aggrieved

66 Tripe

- 87 Wrong man for basketball center 90 French office
- worker

12 13

10 11

21

24

39

33

48 49

69

79

103

107

114

73

74

95 96 97

28

32

53

65

84

102

94

61

38

60

43

47

78

88 89

52

68

83

110

113

72

101

- 92 Hogan
- 93 Carpet, for a
- bawling out
- 94 Prone to go
- wrong 98 Hibernian Soc.
- 99 Sky bear
- 101 Colored

79 Skyes

103 — de Pinos

81 Clouds of stars

83 Make up for

88 Made like a

95 Songwriters' group 96 Radar-screen

> flashes "When I was a

term . . .?

91 Gossipy

82 In working order

wrongdoing

89 Belgian seaport

double-crosser

- served a

- 104 Opera bride for whom all went wrong
- 105 A wrong gee 107 He goes wrong
- again 109 Anoint
- 110 Take care of
- 111 Enmesh craftily 112 Sore throat
- 113 Norse literature
- 114 Psi powers

100 Not prone to

Earth goddess in

Wagner's Ring 104 Mr. Hunter, The

Blackboard

107 Road map abbr. 108 ----- jam, really

35

troubled

Jungle

106 Agent

error

102

- 115 In a mean mood

- DOWN
- 1 Cheap as can be 2 Lincoln
- wouldn't!
- 3 Student
- guessing game First night:
- Abbr. 5 Pick up fish
- 6 Hot-air platform
- 7 Spectroscope
- prism 8 Herringlike fish

September/October 1977

- 9 School subj.

GAMES

10 Et -----, and others

- 11 Kubla Khan's urban renewal site 12 Use if things go
- wrong 13 Get rid of, if
- things go wrong 14 Turkish bigwig
- 15 He spent two years before the
- mast 16 Played high
 - finance rather sharply
- 17 Not by oneself
- 18 Gets the shakes

- 20 Disc as a tryout Like cheese 25
- 28 Took
- wrongfully
- 31 Sandpipers

39 Horn blaster

Exceeding

45 Poe's croaker

48 Jockey's outfit

----- one's wild

- Gold was wrong 32 for him
- 34 Triplet 37 Hamburg's river

oats

49 Spires

42

43

BEATLEMANIA

BEATLEMANIA: to love a BEATLE, that is, John, Paul, George and/or Ringo. Also, to love their music. Find the Beatles and 30 of their songs in this puzzle.

ABBEY ROAD BACK IN THE USSR **BLACK BIRD** BOYS FOOL ON THE HILL GOLDEN SLUMBER HARD DAY'S NIGHT HELP HER MAJESTY HERE COMES THE SUN HEY JUDE LADY MADONNA LITTLE PIGGIES LOVE ME DO MAGICAL MYSTERY TOUR MEAN MR. MUSTARD METER MAID MICHELLE

YRREBWARTSCEGMAGICAL ABFIELDSELQRDGYSLUAP RNRPNFALDUSROHUSHJIE WOAKOGTCSMILGPDFTEGD ORCZATOEKBDBOMCDOEAU OWCKIYITUEBTZACRULRJ DEOLYGTVNRCLADYARLDY KGOWGXNYLOVEDOATXEES С INIHEARTSMBANDSDHNW AAPTYLENOLYAENRURCOR BNMLEGGFCUVONAEMQIHP RWRITERJLGYNBRTAXMAN EDIAMOETUEROADSLSTRI PEPPERSUBMARINEVEWDG AKLETGQBLWOLLEYKCABH PSENEEAOMANNOWOMYNIT JOHNRUOYSEVOLEHSEHTM LUAYMFONTHEHILLERSSU NLHERECOMESTHESUNLKP REBBURHLKRMAJESTYEJZ

NORWEGIAN WOOD OCTOPUS' GARDEN PAPERBACK WRITER PENNY LANE ROCKY RACCOON RUBBER SOUL SERGEANT PEPPER'S LONELY HEARTS CLUB BAND SHE LOVES YOU STRAWBERRY FIELDS TAXMAN YELLOW SUBMARINE YESTERDAY GEORGE JOHN PAUL RINGO

THE FONZ AND FRIENDS

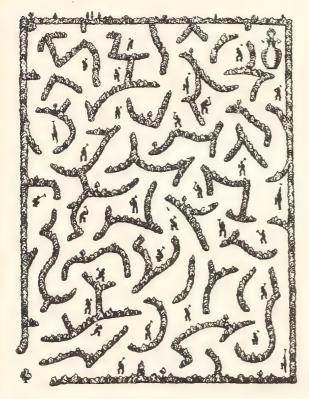
Who can forget the poignant wind-up to "Happy Days"? The Fonz, night school valedictorian! Find Henry Winkler (a.k.a. you know who!) and 29 more actors and actresses who enjoy prime time celebrity. To give you a hand, their T.V. aliases are also provided. (Note: There are two couples who share the same last name.)

MGNALADLAEJROSLYNNEP FARAHLOUISEMLLAHSRAM EBRTLSISISSHAZAMGURY TELYUPCKSCMICHAELAYS ACHLMBAAQUASXDXDAVID CHAESELKUDIRRXDESOUL MOOREVANNILOTOOEEPED HOWARDAYOTLMKEBFRSKV ANIOWOLYDNICATREPRAH SONNYCLEMOWXENSBRLLA ABEXYOTLISALAVASETBR DWOYRNEHKALBYDTRANIA ODAKENRFOYUGLMIOSCAT GODLLONYHEPRUENJHPTL NONKREHCABBXNEAREHO VNSANEDLHFREDERMCTOV EYMMIJROAPERRDOWTEMA IOZWAKPSABRAFALKRAR D BENEFCYVEHCYOFOPUDST SWDEIRAMSGILDRADNHOJ

ALAN ALDA (HAWKEYE) FRED BERRY (RERUN) ROBERT BLAKE (BARETTA) SONNY BONO (CHER'S EX) LYNDA CARTER (WONDER WOMAN) CHEVY CHASE ("SAT. NIGHT" KLUTZ) CHER (CHASTITY'S MOM) PETER FALK (COLUMBO) REDD FOXX (SANFORD SR.) PAUL MICHAEL GLASER (STARSKY) VALERIE HARPER (RHODA) RON HOWARD ("HAPPY DAYS" RICHIE) GABE KAPLAN (MR. KOTTER) LOUISE LASSER (MARY HARTMAN) FARRAH FAWCETT MAJORS (CHARLIE'S ANGEL) LEE MAJORS (COL. STEVE AUSTIN) PENNY MARSHALL (LAVERNE) MARY TYLER MOORE (MTM) CARROLL O'CONNOR (ARCHIE BUNKER) DONNY OSMOND (DONNY & MARIE) MARIE OSMOND (SEE ABOVE) TELLY SAVALAS (KOJAK) SHAZAM/ISIS (SHAZAM & ISIS) DAVID SOUL (HUTCH) RICHARD THOMAS (JOHN-BOY WALTON) JOHN TRAVOLTA (BARBARINO) ABE VIGODA (FISH) JIMMY WALKER (J.J.) CINDY WILLIAMS (SHIRLEY) HENRY WINKLER (THE FONZ)

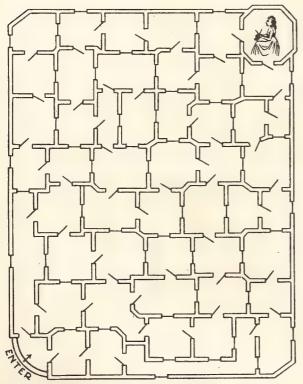
Maiden in A-Mazing Distress

The Sultan's fabulous favors await the savior of that lovely lady at top right who languishes in hot oil. Alas, 30 hammerwielding bandits also await. Our hero can at best sustain two encounters with these thugs. Can you suggest his route?



Rosamund's Bower

Rosamund was a mistress of Henry II, and legend has it that he built a maze adjacent to his palace in which to keep her safe from the Queen's jealousy. Put on your crown and, pretending to be Henry II, pay Rosamund a visit. Or, diabolically, pretend to be the Queen.



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STOP!

Fold this page in half with this side under. It will hide the easy set of clues for the blockbuster crossword puzzle on the next two pages. Try the hard clues first. To peek or not to peek is up to you.

Lots of Luck!

Hard Clues

- ACROSS
- 1 Shave on the road
- 6 Fast ball carrier
- 12 Emergency
- paper money 17 A foolish
- fancy 22
- Tale of Troy 23 Wrap up
- 24 Eat away
- 25 Run for love
- 26 Las Vegas
- business 28 Money limit in
- poker
- 30 W. Point
- 31 Meager givers
- 32 Baby talk Girls in 34
- 'Tom'' shows
- 35 Women's Lib
- political goal 36 And not
- 37 **Great Pacific**
- battle, 1942 39 Frosted
- 41 Student of
- parent
- psychology 42
- Hoof it 44 Pickpocket
- 45 - nothing,
- go all out
- 47 Lawman at the **OK** Corral
- 40 Green island
- 51 Comes together at a
- point
- 54 Castle ditch
- 57 Soft powders 60
- Weirdo
- 63 Empty 64
- High IQ group Figure in a red 65 suit
- Ground cereal 66 for cattle feed
- 68 Be -– well as president!
- When older you'll get over
- it! 72 Second person

- 73 Kreuger, the Match King 74 Danish weights 76 Quick drink 77 Firemen 79 Tied around the middle 80 Private affairs 82 Lassos 84 Supplies 85 Great auto race 86 Macbeth

 - wanted to be thane of it
- 88 Lowest point
- 89 Mulligan
- 90 Initials on
- bounced
 - checks 91 The spotted
 - cubes 94 - double
 - take
 - 97 Virile
 - 98 winner. boot one home
 - 99 Recounted
 - **100** All the boys
 - 101 Where most
 - card games are
 - played 104 Like a boiling
 - kettle
 - 105 Starchy pudding
 - 106 Sticks around
 - poolhalls
 - 107 A nice walk
 - 109 Rounded
 - 112 Quite a rep
 - 114 French cleric 115 Invisible
 - medium
 - 116 Moroccan
 - seaport
 - 117 Greyhound 119 Strongarm
 - debt
 - collectors?
 - 121 Inlay 123 Sired in
 - Numbers
 - 125 Overjoy
 - 127 Bored people
 - at a lecture
- rank 133 Instrumental striking: Abbr. 135 Relaxed 137 Lump or shapeless mass 139 Animal fat 142 Eye intently 144 Magicians 147 Political hopefuls 151 Beautiful simplicity 152 Besmirch 153 Gendarme 154 Spy's first nâme 156 Growing more grapes 157 Muse of history 158 Casino winner's collection **161** Revolutionary gaming device 164 Left the arms of Morpheus 165 Silent screen star Adorée 166 Eucalyptus of Australia 167 Indelicate 168 Civil wrongs 169 News for noses 170 Guides 171 Innocent orphan DOWN 1 Guiding light Honest deck 2 3 Wind

128 Pass rope

block

129 Irrational

130 Here

through a

number

132 Tournament

- instrument
- 4 Done wrongly:
- Pre.
- 5 Dead as -
- 6 Get back 7 Single-handed
 - - 37

Lots of Luck!

Easy Clues

- ACROSS Where
- 1 Where Rangoon is
- 6 One in a hurry 12 Not real paper money (or
- shorten the script!)
- 17 Steam
- 22 Vergil's epic of Troy
- 23 Enclose in a box
- 24 Wear by
- 25 friction Run away to marry
- 26 Craps, cards, lotteries
- 28 Limit set in poker
- 30 Academy: Abbr.
- 31 Givers of small portions
- 32 Have trouble saying S
- 34 Mrs. Peron and others (or save backward
- girls!) 35 Epoch
 - DOWN
- 1 Lighthouse light
- 2 Clean new
- deck 3 Stemmy grass
- 4 Wrongly: Pre.
- 5 Dead as really extinct!
- 6 Regain as one's own
- 7 Without aid 8 Healed
- Wounds9 Old merchant
- guild (now almost ashen!)
- 10 Escudo: Abbr.11 Fishing spool
- 12 Assembles: 2
- wds. 13 Dice play 14 Hold up
- someone
- 15 A do-nothing 16 Annoy greatly
- 17 Old soldiers
- 18 In the style of
- 19 Deadpan cardgame member

38

neither 37 Water between

36 Used with

- Australia and the Solomons **39** Sweetened the
- coffee
- 41 Nasty little kid 42 Knobby foot
- bone 44 Immerse
- 45 Drop in and stay awhile: 2
- wds. 47 Wyatt, gunslinger lawman
- 49 Irish republic 51 Keeps a date
- somewhere: 2 wds.
- 54 Water around a castle
- 57 Baby powders 60 Eccentric
- fellow 63 Empty of
- liquid 64 Mental marvel
- organization 65 Courage

20 Musical drama

21 Held a new

session

Capital of

27 Ex-president

The cruel

33 Gets to a base.

in baseball: 2

island w. of

New Guinea

(or broken

ceramics!)

38 Appoint to a

To weigh

hillside

43 Famous statue

participants

and low-stakes

46 Poor bluffer

player

48 Sports

-, be heavy

duty

41 Scottish

40

Count

wds.

37 Indonesian

Guam (good

for an Aga!)

22

29

- 66 Chinese peasant dinner
- 68 As —— rain, quite correct
 70 Trifling
- amount of beans 72 Thee, today
- 73 Financier Kreuger (or end of a backward ravioli!)
- 74 Danish weights (or middle of desert!)
 76 Expel breath
- 10 Experiorential loudly77 Late-inning
- pitchers
- 79 Encircled (or coming back very neat!)
- 80 Women's secrets
- 82 Cowboy ropes84 Shops
- 85 Indianapolis race, for short

50 Robert ---

Southern

general

Make a

mistake

natives

55 Dead fires

rupees

Start or

61 Scuba fun

64 Bullfighter

Lawful

62 French

beginning

explorer of the

Mississippi

69 Group of three

71 Wrote down

the names

being sorry

Bay at Perth

75 Feeling of

Amboy

78 Take an oath

hand

56 End of a cat

Ten million

Faro dealt by

53 Siamese

52

58

59

60

67

86 Castle Macbeth wanted 88 Lowest point 89 Meat and vegetable dish 90 Initials as no good 91 Slang for dice 94 Dead on arrival: Abbr. 97 Masculine 98 cock-horse to **Banbury Cross** 99 Repeated the tale 100 Boys in the family 101 In one's domicile

claims it sold poorly.)

- 104 Puff like engine
 105 Starch palm (just in from
- Saigon!) 106 Actors' signals 107 Place to take a walk 109 Round as a
- sphere
- 112 Identify
- 81 Drink
- something
- slowly: 2 wds. 83 Clocks for
- 83 Clocks for speed86 Lead ore87 Relief pitcher
- must get the <u>-----</u>!: 2 wds. 89 Wise man
- 91 Gambler
- 92 Comes closer
- 93 Not a joke! 94 Crooked
- cardplayers
- 95 A few notes of music: 2 wds.
- 96 Appraise for taxing
 - 97 Mother 100 Burned by hot
- liquid 101 Two of a kind: 2 wds.
- **102** Threefold **103** OTB office: 2
- wds.
 - 104 Good-bye, cherie

freshen 116 Word element for salt 117 Motorcoach company 119 Strong apes 121 Map enlargement 123 Fathered: Biblical

churchman

Put outside to

144 Astounders

147 Candidates

named

feather

153 French cop

156 More like

coil!)

158 Big poker

heap

164 Ascended

167 Vulgar

169 Scents

165 Dr. Richards,

166 Eucalyptus of

Australia

168 Civil wrongs

170 Range cattle

171 Turn sharply

140 Man of the

cloth

142 Irish saint,

143 Capital of

Egypt

148 Small egg lost

149 Cecil B. De

in the Louvre

oven

146 Felt pain

150 Build

153 Enemies

155 Embracers

159 Superlative

suffix

160 Daughter of

Cadmus

astonished

GAMES

162 Horse grain

delight

163 Cry of

September/October 1977

157 Gypsy girl (or

endless chain!)

familiarly

141 Pilfered

in courts!)

161 Favorite

152

157

151 Great painting

154 ----- Hari, spy

grape plants Muse of

history (or

uncoil the

winnings in a

casino spinner

tennis player

(or ends retorts

and

That's John Roberts in the middle (condemned by the editors to the Easy Clues page because he admitted peeking when he tested this puzzle). "It

took me 1½ hours and it fell before my feverish hand like 91 Across." He characterizes himself as rich, aggressive, tyrannical and intolerant. He produced the Woodstock Festival in 1969. Now he

is proprietor of a recording studio and the author of a book about his venture capital experiences. (He

114 French

115

- 125 Make happy127 They're starting to
- 129 Ab---- is ridiculous!
- 130 Gift 132 Plant starter
- 133 Westmore of
- Hollywood 135 Comfortably
- relaxed 137 U.S. sailor
- 139 Animal fat (or
- a possible spade!) 142 Look over
- quickly
- 108 White linen vestments (not worn in labs!)
 110 Actress Heckart
 111 Important genetic acids
- (or upside-down sand!)
- 113 Cupid 117 Surly mood: 2
- wds.
- **118** Summer: Fr. **120** Thoughts or
- plans 122 Smooth or
- 122 Smooth or regular124 Austrian city

126 Train driver

with

131 Theatrical

134 Young of

cattle

136 Rubs out

tonights

138 Red vegetable

130 Over and done

(where sheep

almost graze!)

Crossword Puzzle #7

	1	2	3	4	5		6	7	8	9	10	11		12	13	14	15	16		17	18	19	20	21
22							23							24						25				
26						27							And and a	28					29					
30				16	31							32	33			0	34				Ta	35		
36			·\$	37							38	-	39			40				de la	41			
42			43		10	44				and the second	45	46					- Salaria	and a second	47	48			and the second s	tuter;
wennes		49			50	1	51		52	53					54		55	56		57			58	59
60	61					62	- Alex	63						64					a second second	65				-
66					~ <		67	- Star	68				69			in the second se	70		71		1	72		
73					74			75	6.	76					5	77					78			-
79				an chich an An chich an an		80			81 -	and the second	i das	82			83			and the second se	84					-
85				Read and a second	86					87		88					net in	89				1	فنني حديد	ientis.
90			1	91							92						93				~	94	95	96
E. Santas		ter al la companya de la companya d La companya de la comp	97				-	98			-		in the	99						8	100			-
101	102	103				1	104				+		in dise.	e.	105				a and a state		106			
107						108			in .	109			110	111	Later	112			113		114			-
115			*	116				ging .	117						118	and a	119			120				\vdash
121			122	-	1	123	+	124			÷.	125	- ·			126	4	127			-	-		
128						129					130		1	-			131		132					in the second second
	1	133		+	134	. Jaco	at strage	135		136				ji ka	w. 62.	137			·és	139	-		140	141
_	143	_	-	-	144	145	146	-	-	-			147	148	149				150	-	and the	151		
152			- 25	153				. Lit	154			155		156				-			157	1		
158			159					160			2	161	162							163	-			-
164					pre	165			-		- States	166						. 12	167					
168				-	and a second	169						170		-				a straight	171					

Hard Clues (con't.)

- 8 Brands of battle 9 Old
- merchants' guild 10 Getaway:
- Abbr. 11 Stagger from
- the bar 12 Frames a
- sucker 13 Fun for cube
- rooters 14 Take by force
- 15 Fainéant
- 16 Vex mightily
- 17 Treats the beasts
- **18** Imitating
- 19 Sometimes a straight-man
- 20 Groucho's night out

GAMES

21 Reconvened

September/October 1977

- 22 Guam capital 27 Cross the creek
- in a Model T 29 Vic and old radio team
- 33 Occupies a base
- 37 Island near New Guinea
- 38 Allot 40 Like -- of
- bricks 41
- Scottish hillside
- 43 It shouldn't be license
- 46 Cheap sports at the casino
- 48 Jocks
- "Waitin' for 50 the Robert
- 52 Misfigure 53 Siamese

- 55 Exhausted fuel
- 56 Shadow
- 58 Ten million rupees
- 59 Hand-dealt
- faro game 60 Source
- 61 Going below
- 62 French
- explorer
- 64 His game is life and death
- 67 Allowable
- 69 Trinity
- 71 Catalogued
 - Twinge of
- 78 Solemn word
 - wine
- 83 X

- 86 Lead ore
- 87 Pitchers try to
- get this
- man
- 91 He plays
- anything
- - filibuster
 - sharps

- 75 conscience
- river or bay

- 108 White
- 89 Much-married

- 92 Approaches
- 93 Freedom to

- 77 New Jersey
- 81 How to savor

- 94 Crooked card
- 95 Small amount
- of music
- 96 Evaluate 97 Mater
- 100 Really
- steamed! 101 Nice poker
- draw 102 Triple
- 103 Bookie's setup
- 104 A fond farewell

113 Piccadilly Circus statue 117 Sign of a sore 136 Blanks

138 Sugar source

Dad!

March

143 City on the

146 Felt tender

148 Small egg

149 Thousand

150 Upright

153 Hostiles

155 A last resort

157 Gypsy girl

159 Superlative

ending

Ulysses from

39

drowning

162 Grain of grain

160 She saved

163 Smash hit

Nile

145 Tiny

141 Filched

140 Father, but not

142 Noted saint for

loser 118 Summer in

nucleic acids

Paris

vestments

110 Met singer

Farrell

Genetic

111

- 120 Brain products 122 Losers try to
- get this
- 124 Austrian Alpine city
- 126 Manipulate
- 130 All our vesterdays
- 131 Guncotton
- explosives 134 Not a lot of bull

Crypto-Search Word Wits

Here's a puzzle that presents a three-stage challenge. First, you break the crypto-code. This is a number-letter code. Cryptogram experts will know to look for those numbers which appear most often, as they probably correspond to the most frequently used letters in the alphabet: e.g., E, S, A, R, and T. The second stage of this puzzle is to rescramble your numbercoded answers to form a second set of words, clues to which appear at the right. Then fill in the grid with the appropriate code letters, and you've created a Find-a-Word. The words to be found are those you've unscrambled from your cryptowords. Enjoy the hunt!

Instructions:

1. Break the crypto-code.

2. Transpose each letter to its proper space *above* the numbered dashes.

3. Rescramble the uncoded words and phrases (there's a hint right there, they're not all single words) to create a second set of words.

4. Fill in these new words in the unnumbered spaces provided below the numbered ones.

5. Fill in each grid space with its number-coded letter.

6. Find and circle your unnumbered set of words within the grid.

A.	19	20	18	5	-1	13	Degree
				_	_		Degree
В.	20	18	1		5	4	
		_		—			Arrange for publisher
C.	18	. 5	-6	5	1	20	8 5 18
				_			From now on
D.	_						
	6	9	12	20	5	18	Dally
E.							
	4	1	25	_	2 1	8 1	5 11 5 Ivories
F		_		_			
F.	23	5	1	20	8	- ,	
		- <u>1</u> - 			·		Entwine
G.	19	16		18	-5	4	
				—	_	_	Extend
H.	19		-3	21	18		
		_					Free
I.							_
r	19	7.3	15	21	18	5	A Ran
J.							·
0.	9	14					0 5 Customon
	_	·		· *	· ·	<u></u>	Customary
K	18	5	20	18	1	9	<u>14</u> <u>20</u> <u>5</u> <u>5</u> <u>14</u>
							Musician, for one
L.	20		18	5			IOI OILE
							Lack
M.	-1						
	1	12	20	9	20	21	Freedom

5	4	21	20	9	20	1	12	1	16	8	25	19	6	18
8	. 18	5	20	21	11	5	25	2	15	1	18	4	6	5
20	5	14	18	5	19	9	19	20	5	4	1	5	15	7
18	1	9	9	15	10	14	20	5	20	18	20	9	20	14
1	3	20	6	5	22	5	14	1	18	1	14	18	8	9
5	3	21	12	15	14	20	15	19	4	3	5	15	7	18
4	15	15	5	20	18	20	2	16	5	19	13	20	9	18
18	21	18	15	17	21	18	5	9	20	1	9	19	18	5
1	18	20	26	21	5	15	18	18	1	12	12	1	18	4
23	19	13	15	14	8	16	15	1	20	8	1	16	5	1
3	5	5	12	9	20	5	14	14	19	1	10	18	19	3
20	4	8	5	19	1	18	25	20	19	12	9	6	3	20
8	5	20	6	1	5	18	5	8	9	2	7	14	21	5
5	8	14	19	16	18	5	1	4	13	22	18	5	5	2
4	5	1	18	1	23	18	5	20	19	1	13	6	15	18

N

N.	18	- 1 -	<u>19</u>	3 1 12 East Indian conscript?
О.	20	8	5	13 1 14 Nation's song
P.	19	9	19	20 5 18 5 4 Withstood
Q.	20	18	1	9 14 1 19 16
R.	14	15		Hopeful
S.	19	20		Titania's husband
т.	13	5	1	
U.	16	15		Canal
V.	<u> </u>	15	20	Account
W.	6	- <u></u>		Some South Africans
X.		_	_	Without delay
V		4	9	20 15 18 19 Fabled
Y.	18	5	4	18 9 14 7 5 18 Gunsmith
Z.	23	15	18	20 8 4 1 18 14 Direction

from S. Pole

Facts of Science

Why are the ridges in bark vertical? A) Because the lines follow the upward direction of the tree's growth. B) Because the pressure of root growth striates the bark. C) Because the bark is split by circumferential growth (increase in diameter of trunk and limbs). D) Because the vertical ridging affords greater absorption of moisture seeping down the length of the trunk and limbs.

II.

TRUE or FALSE: Moose that initially stand their ground when challenged are less likely to fall prey to wolves than those that flee.

.elismine

cal ridges. II. TRUE: A moose in the prime of life is extremely ill-tempered and dangerous to approach, a fact appreciated by wolves who will normally avoid aftacking such an animal. In a recent field study, of the 24 moose who did not flee study, of the 24 moose who did not flee when approached by wolves, none were killed, and all were large, mature

This growth exerts continual pressure on the bark, causing it to split into verti-

I. C: Growth takes place in the cambium layer between the bark and the firmer fiber of the trunk, one consequence of which is the annual concentric growth ings seen in a cross-sectioned tree.

Cointest

Rules of Play: Each player starts with a stake of four real coins-a penny, a nickel, a dime, and a quarter. Flip a coin to see who goes first; then alternate positioning your real stake coins in any order in any open space. When a coin you play on your turn completely fills a row, vertically, horizontally or diagonally, you score the total value of all the coins in any rows that pass through that coin. You can score on diagonal rows of three, four or five coins as long as they reach from one side of the grid to any other side. Keep playing alternately and adding to your scores until both players' stake coins have been played and the grid is filled. The highest score wins. One four-coin diagonal row of printed coins is already filled. See it? It is worth \$.32. But nobody can count that one in his score. If you want to, you can award that free to the loser of the last game as a handicap when you play again.

If a player does not notice a row he is entitled to and fails to include its value in his score before the other player takes his turn, then the second player can add that amount to his score for that turn.

Othelo The next jump for checkers players.

Othello is the new board game that's as simple as checkers, as challenging as chess and as exciting as backgammon.

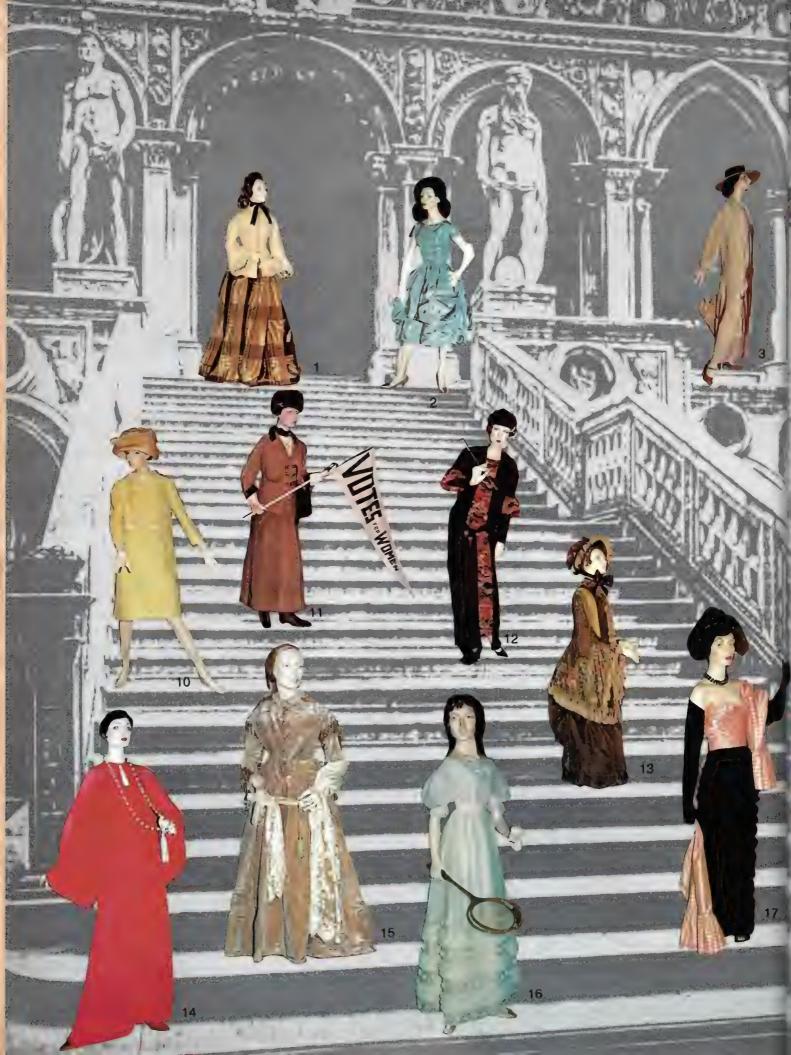
Othello takes only a minute to learn, but a lifetime to master. Discs are black on one side, white on the other. The strategy is to surround your opponent's discs and flip them over to your color.

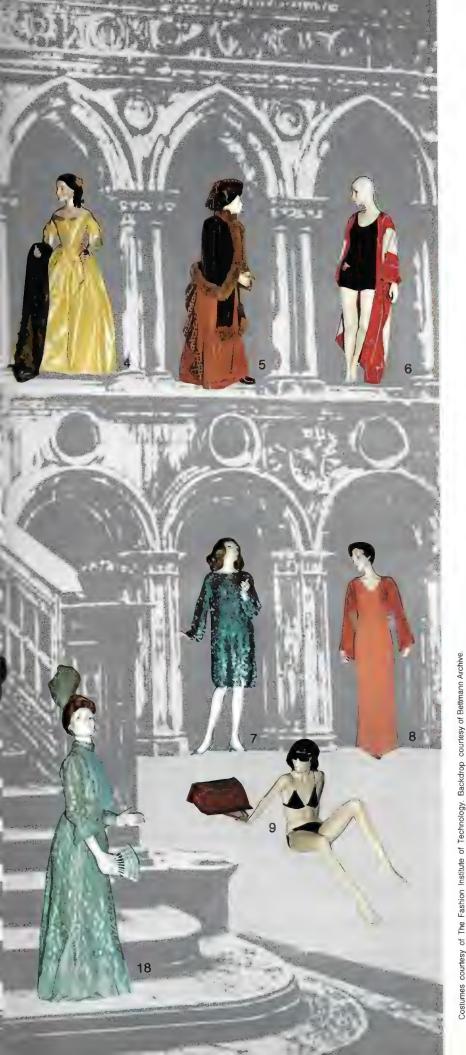
At quality toy and game departments everywhere. Othello. It's like the best of all board games rolled into one.



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ALL THE NEWS THAT'S FIT TO FASHION

Samantha Schwartz had a big problem. Her boss at MGM told her, "Listen, kid, we've got some big T.V. movie contracts comin' up and we need a lot of those American costumes over there in Building 8, on that old Italian Palazzo set. The old bird who keeps an eye on #8 has got a list of the dates, but can't match 'em up with the costumes anymore. So get right over there and figure out which costumes came when. If you get 'em all right, we'll give you a raise and throw in an autographed photo of Edith Head."

The old costume custodian, a history nut, in an effort to help Samantha out, reeled off newsmaking headlines for every year listed.

At the left is a photo of Samantha's dilemma. Below are the facts she had to work with.

Answer Drawer, page 60

1820—Missouri reinforces its pro-slavery position with the passage of the "Missouri Compromise."

1845—Texas joins the U.S. in fulfilling its "Manifest Destiny." Jackson buried at the "Hermitage."

1855—Kansas invaded by pro-slavery "Border Ruffians." Longfellow pens *Hiawatha*.

1860—Darwin's *Origin of the Species* hits America. South Carolina secedes.

1880—Edison perfects the electric light, and the Divine Sarah makes her U.S. debut in *La Dame Aux Camélias*.

1887—*Edmunds-Tucker* law curbs power of Utah Mormons. President Cleveland demands return of war booty seized by Union Army the swag, captured Confederate flags, goes home.

1903—Women fight for higher pay at work; form Women's Trade Union League.

1915—Alexander Graham Bell calls crosscontinent to his assistant. "Mr. Watson, come here, I want you."

1920—The nation goes dry, and F. Scott Fitzgerald captures the post-war malaise in *This Side of Paradise*.

1922——"Teapot Dome" explodes and King Tut is unearthed.

1925——Scopes trial queries Darwin. "Gentleman Jim" Walker triumphs in the New York City mayoral election.

1932—The nation is still singing *Brother*, *Can You Spare a Dime*. The Lindbergh kidnapping hits the front page.

1947—The "cold war" rages. A million names crowd HUAC files. Marshall outlines his Plan.

1957——Fashion takes a bag with "The Sack." 1,000 Army paratroopers march to the aid of 9 black students in Little Rock.

1965—Malcolm X murdered. Watts boils. First bombing in Vietnam.

1967—Jimmy Hoffa and the "Boston Strangler" go behind bars. Thousands of "Flower Children" converge on Haight-Ashbury.

1976—A Georgia peanut farmer becomes Chief Executive. Burton and Taylor split up, again.

1977——"Big Daddy" Amin fails to crash Queen Elizabeth's Silver Jubilee. The only equipment you'll need is a sense of humor, a spirit of cooperation, and a crowd.

The Play's The Thing

A lot of people are discovering that competition isn't the only way to have fun at play. Here are two fresh-air games designed for spontaneous fun.

Knots

Knots is a game that gets people together by getting them apart. About a dozen players can tie on a good one.

To form the knot, stand in a circle, shoulder-to-shoulder, and place your hands in the center. Now everybody grab a couple of hands. If you ever want to get out of this, make sure that no one holds both hands with the same person or holds the hand of a person right next to him. It might take a bit of switching around to get the knot tied right. (If you have too much trouble getting this part together, you might want to quit before you try getting it apart!)

Now comes the true test. You'll probably notice that there are two basic ap-



proaches to untangling the knot. The Activists dive right into the problem—under, over, and through their teammates—hoping they'll hit upon the solution. Instead, they might well hit upon one of the Analysts, firmly rooted, hands locked in a dignified tableau, carefully surveying the situation before instructing each player precisely where to move and in what order.

Since you're all in the same tangle together, you'll have to come to some agreement as to which approach to follow. (Note: pivoting on your handholds without actually breaking your grip will add a lot of grace and eliminate the need for a chiropractor.) When at last the knot is unraveled (hurrah!) you will find yourselves in one large circle or, occasionally, two interconnected ones (amazing!).

Every once in a while an Analyst will discover the one tangle which prevents the knot from resolving itself. At this point, no other remedy being possible, an Activist can administer emergency "knot-aid" (a momentary break in hands) so you can get on to the next game.





Stand Up

This cooperative game is one of our favorites for getting a group together. You can start with just one friend and end up with a whole crowd of struggling, stumbling, giggling humanity.

Sit on the ground, back-to-back with your partner, knees bent and elbows linked. Now simply stand up together. With a bit of cooperation and a little practice, this shouldn't be too hard.

By the time you've got this mastered, you'll probably have drawn an interested spectator. Have her join you on the ground, and all three try to stand up. This feat should take you just long enough to attract another onlooker. Have him join you. Four people standing up together might be a genuine accomplishment.

By this time you should realize that there's more struggling, stumbling, and giggling each time you add another person. But this very fact assures you of an endless supply of fascinated spectators, ready to join up to help you get off the ground.

A gracefully executed Mass Stand Up (any number greater than five) is like a blossoming flower—but a more rare event. To achieve it, start by sitting close and firmly packed. Then all stand up quickly and at precisely the same moment.

From THE NEW GAMES BOOK, New Games Foundation, edited by Andrew Fluegelman (Doubleday & Co., New York). Copyright © 1976 by The Headlands Press, Inc. Reprinted by permission.

Introducing What People Say About ... Challenging new management LOW BIDDER

strategy game closely simulates actual competitive bidding conditions.

NOW . . . a fascinating, real-as-life way to learn the skills, secrets, and winning strategies behind the baffling business of competitive bidding.

LEARN STRATEGY OF PRICING & WINNING MORE BIDS AT GREATER PROFITS

- HOW AND WHEN TO OUTBID THE COMPETITION . . . PITFALLS, MISTAKES **TO AVOID**
- ESTIMATING MARK-UPS, OVERHEAD & DIRECT JOB COSTS AND MORE.

PERFECT FOR • EXECUTIVES • CONTRACTORS ENGINEERS • ESTIMATORS, ETC.

It's fun. It's ingenious. And so true to life it teaches

It's fun, It's ingenious. And so true to life it teaches you vital business skills you can use in actual competitive bidding situations. A leading researcher in the field of competitive bidding has developed a fast paced management strategy game that gives you a fascinating "real as life" look at conditions that face executives bidding for contracts in the manufacturing, construction, printing or any other industry. By playing LOW BIDDER you and your men absorb the same skills and profit-making strategies used by the biggest money winners in competitive bidding to land the right jobs at the best possible price. best possible price.

You learn how to select jobs on which there are apt to be relatively few bidders . . . how to protect your company from cut-throat competition . . . how to estimate the best mark-up, . . and how to develop an effective strategy for nearly any competitive situation.

FROM 2 TO 25 CAN PLAY

FROM 2 TO 25 CAN PLAY From 2 to 25 players begin LOW BIDDER with \$100,000 in capital, have access to the same jobs ranging in size from \$100,000 to \$1,000,000, and are subject to the same operating costs. Individual players secretely choose which jobs they want to bid on and how much they want to bid so they have a reasonable chance of getting enough work at a fair profit. Then the low bidder is determined for each job. One round of play represents an entire year's operations, and play may continue for any number of years... or to bankruptcy! In LOW BIDDER, as in real life, the object is to bid low enough to obtain jobs with reasonable frequency,



The Inventor of LOW BIDDER. William R. Park is a business economist at Midwest Research Institute, Kansas City, Missouri, where he has con-ducted original research in the fields of cost analysis, competitive bidding, estimat-ing techniques, and cost and profit analysis. His articles and papers on these and re-lated subjects have appeared in many leading national magazines and technical journals.

but high enough to cover operating costs and return a fair profit. Anyone can bid low enough to get work... simply by bidding below costs. On the other hand, a high bid may insure a profit, but seldom wins the job. The strategic bid lies between these two exfremes. Finding the right bid requires not hit or miss guess-work, but careful, well planned strategy. The difference between winning and losing de-pends upon your skill and shrewdness in choosing and bidding the available jobs. However, just as in real life, the winners generally attribute their victory to skill and strategy, while losers are convinced that their failure is due to bad breaks.

PLAY LOW BIDDER FOR 15 DAYS AT NO OBLIGATION

Over 2,000 managers have played LOW BIDDER. Over 2,000 managers have played LOW BIDDER. Reviewers call it "most fascinating and educational" ... "a stroke of genius" ... "very profitable, interest-ing, and different." By playing LOW BIDDER you will learn important bidding principles and bid decision skills you can put to work for you now in actual com-petitive bidding situations. You will gain a better understanding of the underlying economic principles which apply to any business. Perhaps even discover unnecessary financial risks you are taking right now. Furthermore, professional management games like LOW BIDDER usually require costly computers. But thanks to the ingenuity of inventor William Park, the complete equipment for LOW BIDDER costs only \$10.

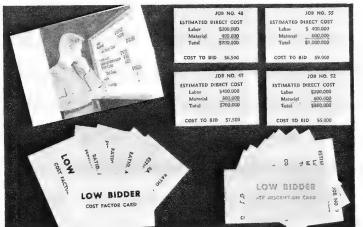
\$10

Send now for LOW BIDDER with absolutely no obligation to keep it. If you don't agree it's one of the most enjoyable, fascinating, and challenging games you have ever played . . . if you don't find it every bit as valuable as we say it is . . . simply return the complete materials and owe nothing. There's absolutely no risk to you. Mail the coupon now.

"A Stroke Of Genius ... Extremely Well Timed" J. R. Andover, N. H. "Most Fascinating And **Educational**² J. H. Philadelphia, Pa. "Depicts Very Vividly The Aura Of Bidding L. A. Urbana, III. "Really True To Life"

R. D. Denver, Col.

"Very Profitable, Interesting And Different" P. M. Minneapolis, Minn.



Are you using hit or miss bidding methods that rob you of your share of the jobs and profits? LOW BIDDER teaches you important bidding principles and bid decision skills without involving the financial risks associated with similar real life decisions. Over 2,000 managers in all areas of business and industry have used LOW BIDDER to improve their contract bidding skills. General Electric, McGraw Hill, Clark Equipment, F. W. Dodge, and Allis-Chalmers are but a few of the companies purchasing this remarkably effective management strategy game.

BUSINESS STUDIES, INC. DEPT ____ G 977 St. James, N.Y. 11780

Please send me sets of LOW BIDDER for 15 day Please send me ______ sets of LOW BIDDER for 15 day trial examination. If I am not completely satisfied I will return all game material for full and prompt refund. Bill me at the low tax deductable rates of only \$10 per game . . . plus 75¢ per game for handling. For N.Y. State residents add Sales

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Company		position
Address		
City	State	Zip

BOOK SHELF

• We've been looking at a lot of books lately. Some of the ones reviewed here are quite recent. Others predate GAMES, and we've included them by virture of their particular interest and quality.

The Mature Person's Guide to Kites, Yo-Yos, Frisbees and Other Childlike Diversions by Paul Dickson (New American Library, 1977, paperback, \$5.95.)

How many post-adolescents secretly hanker after those amusements we've relegated to children? You know the type, the fond father who buys 150 feet of HO track and 12 precision replica cars to indulge his 3-year-old daughter. The premise of Paul Dickson's enormously entertaining Guide is that kite flying, yoyos, and similar pursuits are not just kid stuff. And he's got the testimony of mature persons to prove it. Did you know, for instance, that Thomas Jefferson was a crackerjack mibster? (A mibster, for the as yet uninitiated, is a marble shooter.) And even avid followers of the Congressional slate may not recall the outcome of the premier marble tourney on Capitol Hill last year. It was Missouri Representative Bill Burlison, who edged out a Maryland Senator, an Illinois Representative, and the Mayor of Pittsburgh with his trusty taw. We get the inside scoop on yoyo maven, Donald F. Duncan, a promotional genius who, early in the game persuaded one Harry L. Crosby to trill gloriously forgettable lines like these for his toy:

What keeps my sense in a whirl and makes me break dates with my best girl?

My Yo-Yo.

The author has compiled hundreds of similarly sprightly tidbits on kite flying, Monopoly, paper airplanes, Frisbee, and tiddlywinks. He also covers a range of rules and competitions and gets into a little consumer guiding. This is light, lively material, with plenty of pictures. **The Complete Book of Video Games** by the Editors of Consumer Guide (War-

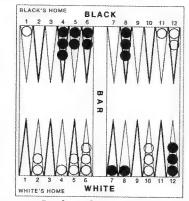
ner Books, 1977, paperback, \$1.75) Here's a handy pocket guide for those who are about to join in on the video game boom. Chapter I gives a thorough account of the variety of games avail-

account of the variety of games available—ranging from the omnipresent *Pong* to auto racing and target shooting. You will also find tips on which video set

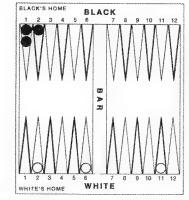
is right for you: depending on your TV set, the number of games you want to play, the desirability of sound, color, speed adaptors, remote control, and various other features. For the technically inclined, there's a chapter on how these electronic wonders work. For us laymen, there's advice on game strategy and the small motor skills we can hope to acquire at video play. The real consumer service is a chapter detailing the many makes and models available to the retail buyer. The authors rate 17 leading models, including useful descriptions of their various features. One wish-though retail prices vary widely: it would be nice to have at least a comparative or ball-park price to work with. Though reference is made to the "good dollar value" or "fair price" of certain sets, even this guideline is not consistently present. But the prospective buyer will no doubt go to the store himself for the hard facts, and Video Games will certainly help him know what to look for besides the price tag.

A live-action money game between two class players adorns the cover of Backgammon: The Cruelest Game: The Art of Winning by Barclay Cooke and Jon Bradshaw (Random House, 1974, paperback, \$5.95). Though basic moves and tactics are covered, this is not a beginner's guide. This book is for the serious intermediate who is ready to abandon all obligations for a week or two of studious dedication to the mastery of odds, tactics, and the psychology of the game. Such diligence will almost surely be rewarded with "luckier" rolls of the dice and a more favorable win/loss sheet. The casual reader will enjoy Cooke and Bradshaw's "sound commonsensical advice" and the lively presentation of their material. Of the many backgammon books available, this is one of the best.

To ape an old adage, no book should be judged solely on the merits of its cover. But the cover to Nicolaos and Vassilios Tzannes' book, **How Good Are You at Backgammon?** (Simon and Schuster, 1974, spiral-bound paperback, \$4.95), serves a tantalizing hors d'oeuvre to the entrees within. Pictured are three tough backgammon problems. Inside are 72 more, with concise answers provided. The solutions are so instructive that all but the tournament-level player will cull a few new gambits from these pages. Here's a sneak preview of the Tzannes' book—two of the less complicated problems:



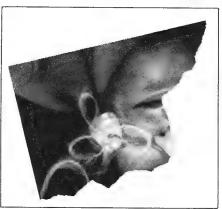
Situation: Look at the positions shown. If you are White, how do you play a (3,3) roll and why?



Situation: Look at the situation and decide, if you are White, how to execute a throw of (3,1). Why?

Are you intrigued? We won't leave you hanging.

Answer Drawer, page 60



How to get through Games with less head-scratching, nailbiting, or teet Innel Adine Conceptual

(AND GET THROUGH LIFE THE SAME WAY!)

Reading Games-

Coping at your office-Or just trying to get through any ordinary day

You've probably been stumped by problems and per-plexing situations more often than you'd like. We all have. What's wrong? Intelligence, education energy docitor

education, energy, desire-you've got 'em all. What you don't have, and what can make a huge, happy difference in your life, is an ingenious, fun-to-read new book called Conceptual Blockbusting.

YOUR PROBLEMS HAVE MANY SOLUTIONS!

Most of us have more problems than we want. So, our natural tendency is to get rid of the problem as quickly as possible—by picking the first solution that comes to mind and running with it.

That's the easy way. But not always the best.

Wouldn't it be far better if you could think of many solutions instead of one-iust as easily? Wouldn't you prefer to eliminate "in the rut" thinking and hit-or-miss methods, so that you can

/ James L. Adams

A Pleasurable Guide to Better Problem

live more fully and satisfyingly?

Blockbusting

A Plansingly Guide to Bella

Problem Solving

That's what Conceptual Blockbusting helps you to do. Not with pat answers or complicated formulas, but by showing you how to free your mind so that you can see possibilities and seize opportunities that are simply not apparent to the average person whose mind is shackled by routine thought processes

Here's how: TEAR DOWN

THOSE MENTAL WALLS! You can't see them. Or feel

them. But, chances are, you've got them-"conceptual blocks" that inhibit us, confuse us, or obscure our view of what's good for us.

Maybe these blocks are rooted in your upbringing. Your surroundings. Even your boss.

Whatever their cause, there are ways to overcome these handicaps and improve your problem-solving abilities.

But, first, Conceptual Block-

busting helps you to identify your own "mental walls." For example, try this short mental obstacle course, and discover some useful and interesting things about yourself:

Perceptual Blocks

1. Do you draw a blank when asked to draw a telephone dial with all the numbers and letters in place?

Yes D No D 2. Do you relate a person's hair

length to his political beliefs? Yes D No D

Cultural & Environmental Blocks

3. Do you believe that playfulness is for children only

Yes D No D 4. Are you plagued by an autocratic boss who values only his Yes 🗆 No 🗆 own ideas? **Emotional Blocks**

5. Are you afraid to take risks?

Yes 🗆 No 🗆 6. Do you prefer judging ideas rather than generating them? Yes No

Intellectual Blocks

7. Do you try to solve a problem verbally when it might be easier to think visually or mathe-matically? Yes No 8. Are you unable to eliminate unneeded or unwanted information when seeking a solu-Yes 🗇 No 🗆 tion? Expressive Blocks

9. Do your ideas go unrewarded because you can't express or describe them effectively? Yes 🗆 No 🗆 10. Are you likely to become frustrated when your fastest stenographer or typist is sick? Yes 🗆 No 🗆

For each "yes" response, you can be sure there's a "mental wall" that is limiting your thinking...your enjoyment of living.

And for each mental wall, Conceptual Blockbusting has specific insights and information to help you get rid of it.

BUILD UP THOSE MENTAL MUSCLES!

Fascinating puzzles, games, riddles, and optical illusions-

These are the mental calisthenics Conceptual Blockbusting provides to get your "thinking form" in shape.

After spending a few hours with this unique book, you'll be able to wipe out blocks when they get in the way. And think through them easily.

As a newly-accomplished problem-solver, you'll find your-self suddenly more adroit in coming up with original and functional answers to all types of problems: From how to spend the family income to working out a master's thesis. From designing spacecraft to painting the kid's room. From newspaper puzzles to the games in Games.

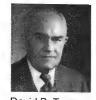
At home, work, and play-Conceptual Blockbusting can make the difference between fun and frustration in all of your problem-solving situations!

10-DAY NO-RISK EXAMINATION

We invite you to study this helpful guide for ten days. If you are not completely satisfied, return the copy to us and we shall refund your money in full-without delay and without questions.

So mail the coupon today. You've got nothing to lose. Except a few "walls.

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Potter Stewart Supreme Court Justice



Cincinnati Reds

U.S. HISTORY TEST



By way of paying homage to the nation's Bicentennial, The New York Times challenged 20 prominent citizens, 1,856 college freshmen, and their own readers with a stiff test of their American History recall.

The Times called on a savvy set of history professors to prepare the exam, one each from Harvard, Yale, Morgan State, and Columbia. Noted historian and scholar, C. Vann Woodward, was Yale's auspicious contribution.

We reprint the test herewith and invite our readers to see how they stack up against collegiate norms. When you have evaluated your answers, it may comfort you to know that only one of the 20 prominent folks who took this test got all 24 right, and he is a ringer-David B. Truman, political scientist and president of Mt. Holyoke College. Other test-takers-Betty Friedan, Phil Jackson, Kenneth Gibson, Cyrus Vance, Ella Grasso, Potter Stewart, Edward Albee, and Tom Seaver among them-didn't score as well. In fact, their average score was 81%. (N.B. None of them had their personal scores published. Wonder why?) But 81% looks positively respectable next to the 56% average those first-year collegians scored. The two students who scored the highest, David Evans of Augustana College in Illinois, and Stephen Cogut of the University of Michigan, confess to being history buffs-their facts didn't come exclusively from Am. Hist. 101.

In addition to the answers, we have included figures next to each possible choice. These represent the percentage of students who selected each answer to a given question. You'll also get a brief description of where the greatest confusion lay and why.

No final grade hangs in the balance, so relax and enjoy this quiz. You'll find it a challenge. In fact, if this test were required for citizenship, we might all end up aliens. Answer Drawer, page 61 Copyright @ 1976 by The New York Times Company. Reprinted by permission.

English colonization differed from Spanish and French colonization in that the English

(A) were the first to understand and act upon the economic potential of New World colonies

(B) came to the New World mainly as settlers rather than soldiers, missionaries, and trappers

(C) controlled vaster lands and larger populations

(D) established better relations with the Indians and blacks

2. Which of the following contributed most to the development of religious toleration in the British colonies?

(A) The stand of Roger Williams in defense of liberty of conscience

(B) The Puritan guarantee of religious freedom to settlers in the Massachusetts Bay colony

(C) The common interest of each of the numerous sects in preventing domination by any of the others

(D) The attitude of religious indifference that permeated the colonial aristocracy

3. The preamble (introductory section) of the

Declaration of Independence appeals to which of the following principles?

(A) Governments founded in popular con-

(B) Strict majoritarian rule

sent

(C) The right of all men to protection of their property

(D) The right of all citizens to vote

4. The federal Constitution explicitly authorized the

(A) creation of presidential nominating conventions

(B) power of federal courts to declare acts of Congress unconstitutional

(C) creation of the cabinet

(D) power of Congress to regulate interstate commerce

5. The Bill of Rights explicitly provides for all of the following EXCEPT

(A) freedom of speech and of the press

(B) freedom of enterprise

(C) freedom of assembly and of petition

(D) the right of trial by jury

6. The aim of the Monroe Doctrine, as it was proclaimed in 1823, was to

(A) prevent the outbreak of democratic revolutions in Latin America

(B) guarantee preferential trading rights to the United States in Latin America

(C) secure a territorial outlet for American slavery in Latin America

(D) ensure that the United States rather than Europe would be the dominant power in the Western hemisphere

7. All of the following characterized the Jacksonian Democrats EXCEPT

(A) hostility toward the institution of slavery (B) support for freedom of economic opportunity

(C) opposition to special privilege and large business corporations

(D) opposition to internal improvements at federal expense

Questions 8-11 refer to the shaded areas shown on the maps below.

8. Which areas did the United States acquire by purchase:

(A) (B) (C) (D)

9. Which areas did the United States acquire by annexation?

(A) (B) (C) (D)

10. Which areas did the United States acquire by war or the threat of seizure?

(A) (B) (C) (D)

11. Which areas did the United States acquire by negotiated settlement of boundary disputes?

(A) (B) (C) (D)

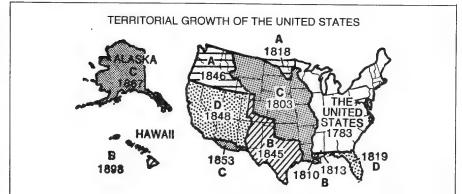
12. In the politics of the decade before the Civil War, the issue of slavery focused on whether

(A) racial equality should be the foremost national priority

(B) slavery should be permitted to exist in the territories

(C) slavery should be eliminated where it already existed in the states

(D) the foreign slave trade should be reopened



13. Republican policies toward the South during the post-Civil War Reconstruction era can be described most accurately as

(A) aiming consistently to protect the interests of postwar big business at the expense of the newly freed slaves

(B) leading to unparalleled corruption among the entrenched carpetbagger governors and their allies in the black dominated legislatures of the defeated states

(C) leading to significant but only partially implemented constitutional changes on the state level in the South and also on the national level

(D) leading to an effective program of land redistribution that gave to large numbers of newly freed slaves "forty acres and a mule"

Questions 14–16 refer to the following business leaders.

(A) John D. Rockefeller

- (B) Andrew Carnegie
- (C) J. Pierpont Morgan

(D) Henry Ford

14. Which business leader adapted the trust as a device for large-scale industrial organization?

(A) (B) (C) (D)

15. Which business leader mobilized the power of the banks to curb industrial competition and to facilitate corporate mergers and reorganizations?

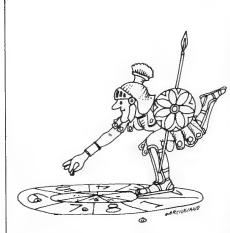
(A) (B) (C) (D)

16. Which business leader pioneered the mass-production assembly line?

(A) (B) (C) (D)

Questions 17–20 refer to the following groups.

(A) Northern and Western Europeans (e.g.,



Leaping Legionnaire

Hopscotch, a game that everyone knows, is both ancient and universal. Nobody seems to know quite where hopscotch started, but kids were drawing their boards in the dirt long before chalk and pavement streamlined the setting up. The name of the game sounds like a clue to the source, but it isn't. "Scotch" as in "hopscotch" does not refer to kilt country. It comes from an old French word, "escocher," meaning "line" (like the ones used for drawing the board).

Centuries ago, Roman soldiers introduced a version of hopscotch called

Germans and Irish)

(B) Southern and Eastern Europeans (e.g., Italians and Russians)

(C) African slaves

(D) Mexicans

17. For which group were the peak years of entry into the United States 1700-1800?

(A) (B) (C) (D)18. For which group were the peak years of entry into the United States 1840-1880?

- (A) (B) (C) (D)
- 19. For which group were the peak years of entry into the United states 1885-1915?
- (A) (B) (C) (D)
 20. For which group were the peak years of entry into the United States 1910–1930?
 (A) (B) (C) (D)

21. The defeat of the Versailles Treaty in the Senate after the First World War was due to the

(A) growing conviction in the United States that the Kellogg-Briand Pact outlawing war posed a better alternative for the future conduct of foreign affairs

(B) widespread view in the United States that proposed neutrality legislation to prohibit citizens from traveling on belligerent ships except at their own risk would suffice to keep the United States out of future European wars

(C) inability of President Wilson and his political opponents to reach a compromise on the issue of United States participation in the collective security arrangements of the League of Nations

(D) widespread view in the United States that the League of Nations had been tainted by its admission of the Soviet Union to membership 22. Which of the following best describes the domestic changes brought about by the New Deal?

(A) The enactment of a number of new economic regulations, joined with new relief and welfare measures

(B) A vast increase in governmental ownership of business

(C) A major redistribution of income and wealth in favor of the poorest segment of the population

(D) The restoration of a free market as a result of effective antitrust action

23. In the years immediately after the Second World War, the United States assumed

(A) the dominant role in an alliance of Western nations for the purpose of containing Soviet power

(B) its traditional policy of noninvolvement in world affairs

(C) the burden of arming friendly democratic nations with atomic weapons

(D) the leadership of Third World countries seeking independence from their colonial rulers

24. Before the Supreme Court's decision in 1954 that racial segregation in the public schools was unconstitutional, the Court had

(A) refused to consider cases about racial segregation

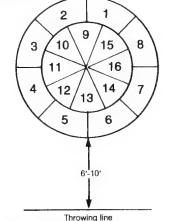
 (B) justified racial segregation in public facilities by the "separate-but-equal" doctrine
 (C) been prevented from considering cases about racial segregation by Southern filibusters in Congress

(D) required desegregation of public facilities "with all deliberate speed," but stopped short of ordering the President to enforce the decision

Hop-Around to England. Of course, the Romans did not come to ancient Britain in the interest of cultural exchange, but even an invasion has its lulls. And whenever the thrill of chariot-racing grew thin, the legionnaires turned to hopscotch for diversion. Envision, if you will, the splendid sight: those mighty men, in cuirasses and mail, throwing flat stones and hopping around in circles.

Here's how to do as the Romans did: Players each have five small stones (flat ones are better). The first player stands behind a throwing line and pitches his stones onto the diagram shown to the right, either one at a time or all at once. (Pebbles that miss the diagram do not count, but those which land on a line are rethrown.) Counting the number on each section where a pebble has landed, he then adds up his score. But that's just the beginning. To earn his score, he must then hop into every space in which he has a stone, going from one to another on one foot-and missing the lines, of course. He must pick up his stones as he goes. Once he has successfully hopped in and out of a space, it is his and no other player may step in it during the rest of that round. To retrieve a stone of yours from another player's space, you must grab it while standing in a nearby space. After everyone has had a turn, a new round begins. The order of the players remains the same, except that the first player is now last. The winner is the person with the highest score after as many rounds have been played as there are players in the game.

Hop-Around



The Ancient Roman court consisted of two concentric circles with radii of 3 and 5 feet. Both areas were divided into eighths, the inner one like a pie, and the outer like a spoked wheel. The dividing lines were evenly staggered so as to join the smaller circle from opposite directions at regular intervals. The throwing line was placed 6 to 10 feet away from the larger circle and directly opposite the first two numbered spaces.

PHOTOCRIME

From the files of Inspector Orestes Mountebank Case No. 4378948621.5

Theft at a Séance



1. "One of us four is a thief." Tension was high at "The Gables," pleasant suburban home of Mr. and Mrs. White to which a few friends of Mr. White had been invited for the evening. Everyone reacted differently to the accusation. While two guests huddled intently with their hosts, one nervously paced the floor. Guilty or innocent, nobody enjoyed being under suspicion. Four of the five people present were relieved when the maid presented the card of Inspector Black.



2. The card was soon followed by the inspector himself. He listened with close attention while Mrs. White told of the theft of her valuable string of pearls.



3. The pearls were a gift from her husband who was having a most successful year in the City. She had put them on after primping, powdering, and dressing for dinner.

5. Mr. Green wished to try an experiment whereby the participants sat with hands apart instead of each touching the others. The table was arranged. Going counterclockwise around the table, from Mrs. White's left sat Green, Brown, and Dark. Mr. White, seated on his wife's right went over to the door to turn off the light.



4. The dinner-party was a rather unusual one, the guests being three men, besides her husband and herself. The men were business associates of her husband's and their names were Green, Brown, and Dark. After dinner, Mr. Green, who was a student of psychic matters, had suggested holding a small séance. The others, who had all had some experience of séances, agreed.



" Even I did not immediately grasp that this case was more than a squabble in the marbled halls of the overprivileged, so I dispatched my courtly associate, Inspector Black, to 'The Gables.' "





6. The room was then in pitch darkness. The party sat perfectly still for about twenty minutes in concentration. Suddenly Mrs. White felt a sleeve brush against her shoulder. A hand grabbed at her throat. She screamed. Her husband sprang up and put on the light. All the guests were in their places, but the pearls were not in theirs.



7. It was clear that someone in the room must be guilty of the theft, and her husband had insisted on Mrs. White's telephoning immediately for the police.



8. Inspector Black got an idea of where each person had been sitting and took a quick turn round the room, which he had observed closely when he first came in.



9. He picked up a cigarette case left in one of the chairs. The cigarette case belonged to Mr. Green, who said he always left his belongings lying about.



10. The Inspector returned the case to Mr. Green, and without further inquiry told two of the guests they might go home, and asked the third to be so kind as to come along with him. As he left, he told Mr. and Mrs. White where to look if they wanted to recover the missing pearls.

Students of the criminal mentality will perceive that all the evidence which was available to Inspector Black is available to them as well. The thief was not an experienced criminal, and the various stages of his crime were improvised on the spot instead of being carefully planned out in advance. You should experience little difficulty in making the correct arrest, and further examination of the evidence will soon show you how to recover the pearls for Mrs. White.

Charades: Bringing out the Bard

Have you ever played Charades? No, we don't mean that perennial parlor pantomime known in some circles as "The Game." Dramatic charades are just one version of the original game, which we'd like to introduce you to here.

In the 18th century some clever French wag developed the first poetic charade. His version was a kind of riddle in which a word of two or more syllables is to be deduced by guessing its individual syllables. Each syllable must be definable as a whole word, clues to which are furnished in the poem. In a word of three syllables or more, two syllables can be run together for a single definition (for example: "harmony" might come out "hour-money"). As you can see from the example, the component words will not always be exact homonyms, but they must at least be recognizable as nearmisses. Another must is some indication of the order in which the component syllables should be arranged. And the final verse or couplet of the poem should offer an overall description of the charade's solution.

Sample Charade with Explanation:

The laundry one and two comprise. 2,000 pounds the third one's size.

The birth of a nation did he bequeath Our country, and his wooden teeth.

The first and second syllables ("one and two") together define laundry—i.e. "washing."

The third syllable describes "ton."

The final couplet gives a clue to the overall solution—"Washington."

We invite you to solve the charades on the right. But that's not all. This contest has two requirements: in addition to solving our charades, we'd like you to write one for us. We took Presidents for our theme. The theme for contest submissions will be GAMES—parcheasy, check-hers, or whatever else strikes your fancy. Make sure that the game you choose to immortalize in verse is one with which most people are familiar and keep your charade to a maximum of 12 lines. Each of the five entries we judge the best will appear in the January-February issue of GAMES.

Contest Charades

Verity the first extends. The second from the ape descends.

Ever frank and always homey, This Pres hailed from the state of "Show Me."

Π

The first attempts a glance, a wink. The second turns dawn's fingers pink.

The third and fourth, combined, include Fifteen degrees of longitude.

While this man ruled our post-war nation, The Court said "no" to segregation.

III

A summer breeze the first describes, Or the drink a thirsty throat imbibes.

The second is a rocky thrust, A climber's foothold, if he must.

A stern Vermonter, prized for calm, Did this man's plans prove bomb or balm?

IV

Add the fruit of a pine, the second part, To the gap in Darwin's chain, for a start.

Known for debate, yet he failed to court The T.V. audience's support.

The first's a snouty sort of fish, The streamside angler's ardent wish.

The second is a grassy plot Where cows and sheep are wont to trot.

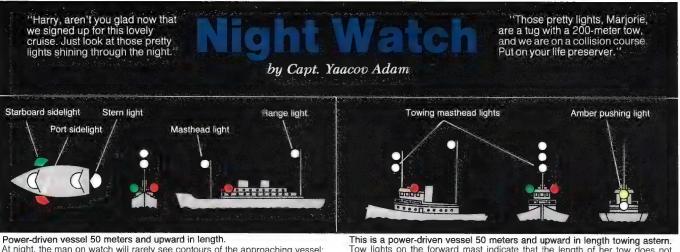
In his brief term as Chief of State, He proved that southpaws can be great.

POSTMARK DEADLINE: 9/23/77

FIRST, SECOND, AND THIRD PRIZES: A personalized crossword-puzzle trophy, handsomely engraved on copper plate and specially constructed to incorporate *your* full name, street, city, and state among the solutions. AND TWO HONORABLE MENTION PRIZES: A year's subscription to GAMES magazine.

Clip or copy this entry blank and mail it to:	My solutions are:	My original charade is:
GAMES MAGAZINE CHARADES #1	I	
515 Madison Avenue	11	
New York, NY 10022	111	
	IV	
Name	٧	
Address		
City StateZip	Void where prohibited by law.	Attach additional sheet if necessary

September/October 1977 GAMES



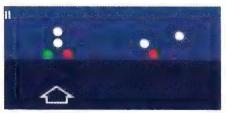
At night, the man on watch will rarely see contours of the approaching vessel; most likely he'll see its navigation lights only. (If its cabin lights are also visible, they may confuse or make the identification difficult.) Tow lights on the forward mast indicate that the length of wing astern. Tow lights on the forward mast indicate that the length of her tow does not exceed 200 meters. A vessel or object being *towed* will not display masthead lights but will display *sidelights* and *stern light*. Note: in the accompanying test examples, no vessels are shown from the stern.

At night all you can see of another ship is its lights—at least until it may be too late to avoid a collision. All vessels must display some sort of navigational lights when they are underway at night. The International Rules of the Road, on which this puzzle is based, specify exactly what lights a large motor vessel must carry at night, including where they must be placed, how many there must be, of what color, and how they must be hooded so they can be seen only from certain directions. (A different set of rules, the Inland Rules of the Road, applies to vessels operating only in enclosed waterways.)



1. What is the minimum distance of these two vessels from you? 2. Which of these two vessels is steaming from left to right as you are looking at them?

By displaying these combinations of lights, a vessel warns other vessels of its presence. Equally important, if the man on watch knows how to "read" these combinations of lights he also can learn a great deal about another vessel's *course* (direction of movement) and *aspect* (relation between his vessel's direction and the other's). In some cases a vessel must also display special lights to indicate that it is restricted in its ability to maneuver, either because of physical characteristics (a barge, for example) or because of the activity in which it is engaged (a tug towing a barge, for example).



1. Is either of these two vessels towing? 2. Which way are they heading? 3. Is there a danger of collision between you and either ship? 4. If so, which relative direction (right or left) should you turn?



1. What is the direction of movement of the vessel(s) you see? 2. If a tow is involved, how much do you know about it? 3. Is there a danger of collision? 4. If there is, which relative direction should you turn?



 What do you see ahead of you? In what relative direction is the oncoming vessel or vessels heading?
 If this is a tow situation, what kind is it? 3. How many vessels are involved? 4. Is there a danger of collision? 5. If there is, in which relative direction should you turn?



1. What do you see ahead of you? In what relative direction is the oncoming vessel or vessels heading? 2. If any of these are tow situations, what kind are they? 3. How many vessels are involved? 4. Is there a danger of collision with you? 5. If there is, in which relative direction should you turn?

Copies of the Book of International Rules of the Road are available free of charge from your local U.S. Coast Guard Inspection Office, if you want more complete information on this subject than the simplified explanations and situations used in this article. The numbered illustrations below simulate five situations which you would—if you were on watch at night—have to interpret. The terms and other data necessary to "read" them are provided below. The location and direction of your own ship are indicated by an arrow.

If you survive, you will find the correct answers in the Answer Drawer section on page 61. Look sharp, now!

TERMINOLOGY

Power-driven vessel: Any vessel propelled by machinery.

Tow: As used in these examples, a tow is a vessel underway but not currently moving under its own power. It may be attached alongside a power-driven vessel, or another vessel may be pushing it or towing it behind on a cable.

Underway: Not at anchor, nor made fast to the shore, nor aground.

Arc: The area of visibility of navigation lights along the horizon. Arc is specified in degrees. A light with an arc of 360° could be seen from any point on the water around the vessel. However, most lights are hooded so they cannot be seen from certain directions.

Most lights are housed so they cannot be seen from certain directions. **Masthead light:** A 225° white light at the forward masthead, showing an arc of light from dead ahead to 22.5° *abaft* (behind) the *beam* (an imaginary line across the middle of a ship) on both sides. Visibility: 6 nautical miles.

Range light: A white light like a masthead light, in all respects, but carried abaft of and higher than the masthead light. It is in line with the masthead light, so the lights seem to be directly above and below each other if the vessel is seen from dead ahead. Note: A power vessel less than 50 meters long is not required to carry a range light but, for simplicity's sake, assume that all power vessels are 50 meters or more in length.

Stern light: A 135° white light showing an arc of 67.5° from directly *aft* (behind the ship) on each side.

Sidelights: A red light on the *port* (left) side, and a green light on the *starboard* (right) side. Each is visible over an arc of 112° showing from dead ahead to 22.5° abaft the beam on their respective sides. Visibility: 3 nautical miles.

Towing masthead lights: Two or more lights of the same character as the 225° masthead light. If the length of the tow exceeds 200 meters, the towing vessel must carry two towing lights in addition to the masthead light—a total of three lights.

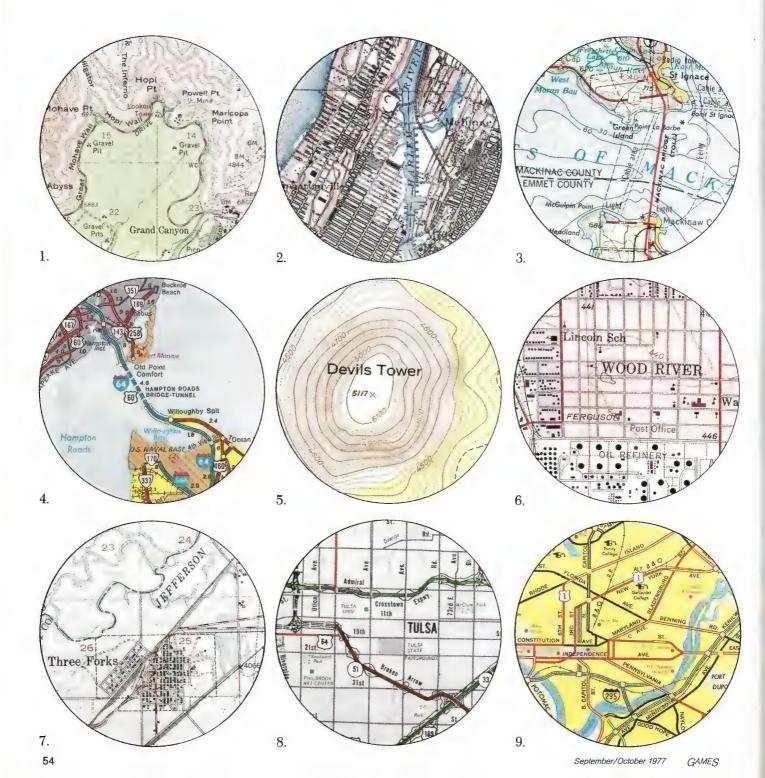
Head-on situation: When two power-driven vessels are meeting on reciprocal or nearly reciprocal courses so as to involve risk of collision, each shall alter its course to starboard so that each shall pass on the port side of the other. When a vessel is in any doubt as to whether such a situation exists, it shall assume that it does exist and act accordingly. MAPPIT:

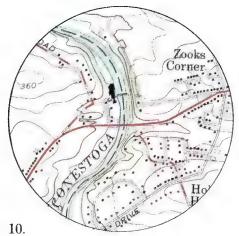
States If the d

Mind

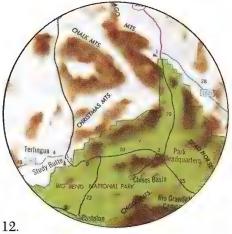
If the energy crisis kept you close to home this summer, here's a chance to catch up on your traveling without putting a strain on your pocketbook. (You may however strain your brain, your eyes, and your patience on this one.) We've selected 21 maps of real places for you to identify by the state they are in. Some you may already have visited; others you may never have heard of. In each map there is at least one real clue, but some contain misleading features, so don't jump to conclusions. Two are traps because they are not in any state. (Which are they and where are they?) If you get all 21 right—and we bet you won't, even with the help of reference books—you deserve a medal (St. Christopher's?). Ten right without help, and you're a journeyman; fifteen is a tour de force.

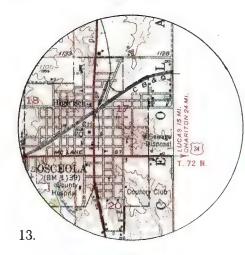
Answer Drawer, page 61.



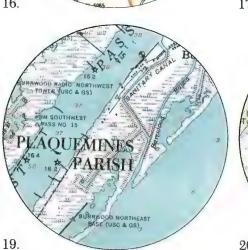


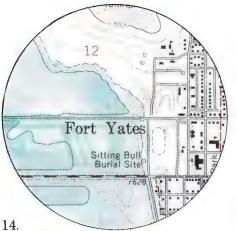


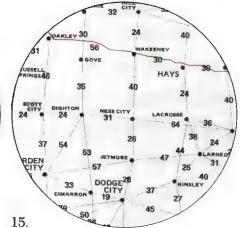


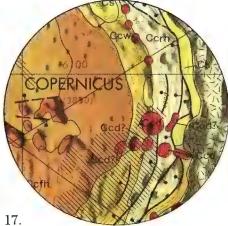


















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55

CRAFTY FINGERS

Believing clever minds go with crafty fingers, we introduce the first of our "I-want-it" projects, geared to the do-it-yourselfer.

Chess & Backgammon Poncho

Here's a poncho for playing backgammon or chess *alfresco* whether that means the beach or your own backyard. To make the poncho, first lay out $3\frac{3}{4}$ yards of 45-inch velour terry cloth flat on the floor. Then follow the drawings below to cut the two main triangles and an extra pocket piece.



Setting the terry pieces aside, cut three 22-inch squares of cotton, two in yellow, one in blue. Pencil-grid a chessboard with 2^{3} /₄-inch squares (8 squares by 8 squares) on blue fabric. Pin blue fabric over one piece of yellow. Zigzag-stitch along the grid. Then cut away alternating blue squares to expose yellow under-



neath. Cut carefully—close to the edge of the zigzag. Center chessboard along selvage of velour side of poncho front. Zigzag-stitch it on. Sew Velcro circles onto the squares.

Cut 24 green and 24 blue cotton trian-

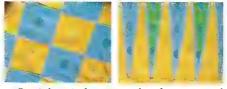
gles 8 inches high and 1³/₄ inches wide at base. Alternate triangles on yellow squares to form backgammon board. Leave a 1-inch center lane between right and left sides of board. Baste down, zig-

zag-stitch on. Center board along selvage

of velour side of poncho back. Place Vel-

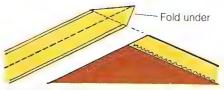
cro down middle of each triangle, as

shown in the photo above right.



Straight-stitch rope border around each board. Seam poncho sides together along selvage, leaving a 15-inch slit in center of seam for head to go through poncho.

Border poncho with bias strips of cotton. Cut four strips of yellow cotton 5 inches wide, two of them 66 inches long and two 73 inches long. Press ¹/₂-inch hem on long edges of all strips. Then press strips in half, lengthwise. (Strips will look like blanket binding.) Zigzag-stitch short strips to opposite sides of poncho.



One inch of fabric will overhang all corners. Now zigzag-stitch long strips straight across the two unfinished sides. Fold back extra fabric ends of long strips. Self-hem; then zigzag the hem to meet the existing stitching on the shorter strips.



Out of extra terry, cut a 5by-7-inch pocket. Hem one 5-inch side. Zigzag the other three sides to the poncho so the pocket straddles the seam. Sew in Velcro sealing tabs.



Cut chess pieces out of vinyl place mats—white and blue: eight pawns, two knights, two rooks, two bishops, a king, and a queen from each color. Cut 15 blue and 15 white backgammon circles 11/2 inches in diameter out of two more mats. Put Velcro on back of all pieces.

Folding and Cutting В 45* 1. Fold corner A to point C, 45 inches along bottom of fabric. Cut along fold line BD. Save the cutaway piece for pocket. R 2. Fold corner D to point E, making two 45inch right triangles with fabric doubled (BCD and BCE), or one large triangle with a 90-inch selvage base if fabric were laid flat (BDE). Cut on line BE. This large triangle is front of poncho. R 3. Fold corner B to point F, creating another large 90-inch selvage-based triangle. Cut on line EF. This triangle is back of poncho. 90* 4. You now have two triangles, each with a 90inch base, 635/8-inch sides, and 45 inches between the base and apex

Magic is deception by means of the mind. The hands come in as accessories after the fact. S. Leo Horowitz

The Magic Game and How to Play It

by Charles R. Reynolds



Charles Reynolds has been involved in the magic game as an author and performer for over 25 years. In recent years he has served as magic consultant on Doug Henning's ''World of Magic'' spe-cials on NBC television and, with his wife Regina, is co-author of 100 Years of Magic Posters, an illustrated book on the flamboyant advertising of the great magicians.



Magic has often been humorously referred to as "the second-oldest profession." This is arguably true, for the roots of the magic performed by magicians today on stage and television, as well as in the more intimate surroundings of the living room, restaurant, or hospitality suite, stretch far back into prehistory where magic, religion, and shamanism were inseparably intertwined.

But magic as a hobby and as a game that people play for their own amusement, as well as (hopefully) for the amusement of others, is only about a century old.

As recently as the turn of the century, even the most basic secrets of magic were relatively hard to come by. There were precious few books, and admission to the shops which sold magic effects to performers was almost on an "invitation only" basis. Certainly an aspiring magician of the early 1900s could go to a magic emporium such as Martinka's (founded in 1873) on New York's Sixth Avenue and buy a simple trick that often launched him into a lifelong enthusiasm for the magic game. But, before he was allowed into the inner circle of Martinka's "little back room," a considerable amount of proof of both aptitude and seriousness of purpose was necessary.

The first general magic text of any importance was written by a magic hobbyist, not a professional. The author was Angelo Lewis, a London barrister and amateur conjuror who wrote the book Modern Magic in 1878 under the nom de plume of Professor Hoffmann. It is still one of the best books ever written on the art of legitimate deception, though many of the tricks, and indeed the literary style itself, may seem charmingly Victorian in tone.

A few years ago, if one were to ask at a bookstore for a book on magic, he would be lucky to find even one or two. Today, most of the large stores have more than a dozen in both hardcover and paperback, with more appearing every week. The major American magicians' societies, the International Brotherhood of Magicians and the Society of American Magicians, have increased their memberships by the thousands; Doug Henning's NBC magic specials have been among the most popular television shows of the year; and a musical comedy (with only average score and book but with excellent magic) called the Magic Show is well into its third year on Broadway and is still playing to packed and enthusiastic houses.

More people today want to play the magic game than ever, both as participants and as enthusiastic members of the audience. Why this sudden and dramatic upsurge of interest in one of the oldest and most enduring of the performing arts?

Perhaps to best understand this magical renaissance, we should look briefly at the reasons for its near eclipse during the period of the early 1950s to the mid-1970s. During that period, there were always enthusiastic amateurs (of widely varying abilities) who belonged to the magic societies, subscribed to the magazines, patronized the magic shops, and avidly studied the several hundred magic books published each year, not for the general public but for the enthusiastic players of the magic game. For the general public, however, perhaps the materialistic concerns of the postwar years made magic seem a bit frivolous. Whatever the reason, there were precious few places where one could see a really great agreeably." There is nothing less interest-

magician perform. Vaudeville was virtually dead and the legitimate theatres in the smaller towns of America had been replaced by radio and movies. Television, the star-making entertainment medium of the new age, was on the rise, and some magicians appeared on it. But television, like film, is almost too good a trick in itself, and the possibilities of deception through camera and editing are so great that magicians are still hard at work bridging the credibility gap in the newest and currently, most important mass-entertainment medium.

Since the retirement of Blackstone in the mid-1950s (he died in 1965), there was no major American magician recognized by the general public, and this remained true until young Doug Henning (who, with his flower-child image and tight-fitting, blue-jeaned garb completely turned around the traditional image of the master magician) exploded on Broadway as the star of the Magic Show. At the same time, there was a great upsurge of interest in close-up magic-those intimate feats that can be performed right under the spectators' noses with coins and cards and other small objects. Hollywood's unique private club for magicians and magical enthusiasts, the Magic Castle, became a mecca for the best close-up magic talents in the world and now, years after its inception, remains a major center of magic activity for those who are members or those lucky enough to know someone who will take them as a guest.

After 25 years the performance of magic had again captured the interest of the general public.

Magic, as defined by the great John Mulholland, is "the art of creating illusion

ing, even to a devoted magic enthusiast, than magic robbed of its mystery, and there can be no greater injustice done to magic than to simply explain the mechanics of how the tricks are done. This only results in a destruction of the sense of wonder without which magic degenerates into the dull presentation of a few lackluster puzzles. The real secrets of magic cannot be exposed anyway. A person who has had it all explained to him can still be fooled the very next day (and with the very same methods) by a skilled magician. The real secrets of magic lie in the psychological link the magician creates between himself and his audience.

Just as the most talented pianist in the world has only a limited number of keys-white and black-which he can combine to create his illusion of beautiful sound, so the most talented magician has a very limited number of effects that he can draw on to create his mysteries. A magician can make something mysteriously appear—or he can make it vanish. By combining these two effects he can make something vanish from one place and reappear in another. He can also transform objects making them change in size or shape or color. He can apparently destroy an object and restore it again, or pass one solid object through another, or make something float in the air, all in defiance of natural law. He can give apparent life to inanimate objects, making a handkerchief dance, as if alive, or selected cards mysteriously rise from a pack. These and a few other basic effects make up the palette with which the skilled magician paints his mysterious performance.

Doug Henning opened his first TV special by making a nickle disappear from the palm of his hand. Observed in closeup by the television camera, it was astonishing. On his next special, he opened his performance by making a live elephant disappear. He accomplished both feats by very different methods, but they were really the same in the spectrum of effects available to the magician. Something was made to disappear.

The disappearing coin illusion

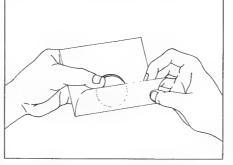
Learning how to make a coin disappear is a good trick to begin with because it illustrates several of the important principles basic to the performance of any illusion. It is a simple trick, with baffling effect if skillfully performed, but it requires practice and an attention to detail. Work on it long enough to attain that skill or don't attempt it at all. Nothing is more painful (or less entertaining) than watching a good magic trick bungled.

You are going to fold a small piece of paper around a coin. Then you are going to set fire to the piece of paper, and the coin will be gone-apparently consumed in the flames. There must be no tricky "moves" that will telegraph to the onlookers that you have done something suspicious. Everything must be clear and around the coin but, you will do it in a

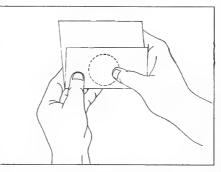
direct. Complicating and confusing elements are hallmarks of badly performed magic

If possible, borrow the coin (a quarter is good, but with practice any size may be used) and the piece of paper. A 4-inch square ripped from the corner of a newspaper is ideal, but use any size or paper that works for you.

1. Show the coin and the paper freely, letting it also be seen that your hands are empty, but without commenting on the fact. This would seem like a simple action, and it is, but two important principles of good magic come into play at this very early stage of the effect. First-you show the paper and the coin but you do not tell your audience in advance what you are going to do. This gives you a great advantage on them. Since they do not know exactly what is going to happen, they are not in a position to try to catch you at it. Second-by your handling of the coin and the paper, you show your hands to be empty. You never make a direct statement that they are empty. Implication is much more powerful than direct statement. Throughout the handling of the effect, the audience will be subtly reminded of the fact that your hands are empty. By implication, they will be conditioned to this fact. Then, at the one point in the handling when your right hand is not empty (you are concealing the coin which you have spirited away), it will not be questioned.



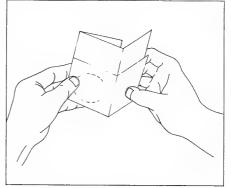
2. Hold the square of paper parallel to the floor in the left hand, thumb on top and fingers underneath. Show the coin in the right hand and place it on the square of paper, holding it in place with the left thumb. Tilt the paper toward the audience (fingers behind, thumb in front, holding the coin in place).



3. Now you are going to fold the paper

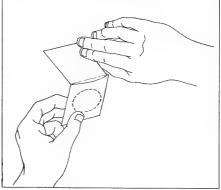
very special way. With the paper tilted forward, grasp the upper right-hand corner with your right hand (first two fingers in front and thumb behind). Now, keeping hold with the right hand, tilt the left hand toward you so that the bottom third of the paper is folded over the coin. At this point, the coin should be concealed from the audience and the paper held in the left hand with fingers in front and thumb in back holding the coin in place. The bottom part of the paper is now folded up so its top edge is about $\frac{1}{4}$ inch above the top edge of the coin.

4. Now the right thumb and forefinger take over the job of holding the coin securely in place in the paper as the left thumb and fingers fold over the left side of the paper toward the audience, leaving at least 1/8 inch of space between the fold and the left edge of the coin. The left

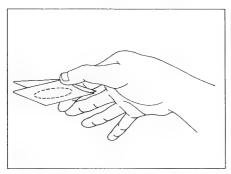


thumb and fingers now grip the coin as exactly the same fold is made by the right hand. Remember the fold is toward the audience, and at least 1/8 inch of space is left between the fold and the coin.

5. At this point, it would seem to the audience that, if the top of the paper were folded forward, the coin would be completely folded inside. But this is not true because of the fact that the original front fold is almost an inch higher than the back fold (clever, these magicians!).

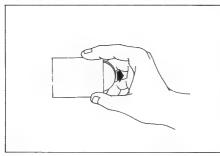


6. Now fold the top part of the paper forward at exactly the point where the top of the back fold reaches the front fold. In other words, only the front part of the paper is folded forward, leaving an opening (at the fold) where the coin can slip out. During all of this folding, both the right and left hands are continuously seen to be empty (*imply*—don't state!).



7. Transfer the packet so that it is held parallel to the floor between the thumb and forefinger of the right hand (with the fold, and the opening through which the coin can slip, facing backward toward the base of the right thumb).

8. You must now make sure that the coin will easily slip out of the packet when you are ready for it to do so. Hold the packet nearly flat (parallel to floor), tilted down slightly at the front, and pinch the packet very slightly between the thumb and finger. This should bellyopen the slit through which the coin can pass. Shake the packet from side to side. Because you had folded the paper with a bit of space at each side of the coin, it will slide from side to side and you and the audience will be able to hear it. Shake the packet by the spectator's ear and then look him directly in the eye. He will look at you. When your eyes meet (not before), ask him, "Do you hear the coin?" He will say, "yes." Now, still holding the packet the same way, extend it to him and say, "feel it." He does. Now comes the crucial moment when you must steal the coin out of the paper. Again, look the spectator in the eye, and when



his eyes meet yours (not before) ask, "Do you feel it?" As he answers "yes," slightly move in the fingers of the right hand (which have been held out exposing the empty palm) until the back edge (where the opening is) is resting on top of your curled right fingers. At the same time (remember he is looking at you and saying, yes, he feels the coin), move your right hand back a bit and stop. The hand stops but the coin keeps going (remember inertia!), where it falls neatly into the naturally-curled fingers of the right hand. The coin should be free to slide out easily because of your not having previously shaken the packet. If it does not, don't panic. Simply go to another spectator and have him listen to the coin and also feel it.

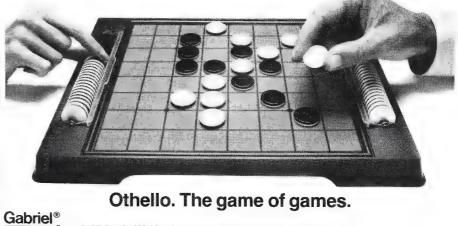
9. As soon as the coin falls into your

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naturally-cupped right fingers, reach over with the left hand, grasp the packet, and move it to your left, holding it about a foot higher than the right hand, which conceals the coin. *Look at the packet*. Wait an instant and let your right hand drop naturally to your side. *Keep your eyes on the packet in the left hand*.

During this entire sequence, you make use of one of the most powerful tools of the magician-visual misdirection. The first principle of visual misdirection is that the audience will look where you look. When you look at the spectator, he will look at you (thus allowing you to get the coin out of the paper. When you look at the packet, he will look at it, thus allowing you to keep the coin concealed in the right hand without his noticing it. The second principle of visual misdirection is that the spectators' eyes will always follow a moving object instead of one which is at rest. This is why, when the left hand takes the packet to hold it in the air, the right hand *remains still* for a moment and then drops *naturally* to the side. The fact that all movements must be natural is a third rule of visual misdirection. Natural movements go unnoticed, while unnatural ones call attention to themselves. If the right hand simply drops naturally to the side and does not sneak down as if it conceals something (which, of course, it does), then the people in the audience will keep their eyes on the folded paper packet which is, of course, where you want them to be looking.

10. At this point, you have a coin concealed in your right hand while the audience thinks (or *should* think) it is in the folded packet in your left hand. Your next problem is to ditch the coin. If you were to try to slip the coin into your pocket, you would very likely get caught, so you must find a reason to go to your pocket. An important rule of good magic is that all movements must be motivated. You cover this with a question. Ask the spectator, "Have you ever heard of people who have money to burn?" As they answer, place your right hand in your pocket (while you're in there, leave the coin!) and remove a packet of matches. Hand them to the spectator and ask him to light the paper. You can subtly allow your hands to be seen empty at this point because you are "clean," and the effect, as far as you are concerned, is almost over. Almost, but not quite. You must now act out your own astonishment that the coin has dissolved in flame. But don't ham it up. Good acting at this point—so good that the magician himself appears to think the coin should not really have disappeared yet, as if some mysterious force had taken over-is a trick that triggers the applause. Recover your composure and bow modestly.

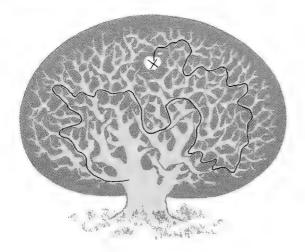
Answer Drawer

Torn Picture (pages 2, 15, 17 and 46)

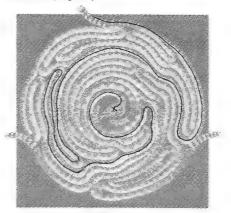


Elton John

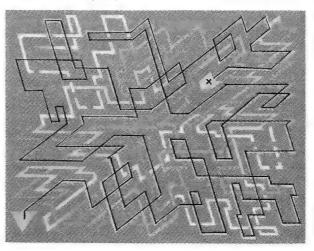
The Sacred Apple (Page 10)



Snakebite (Page 11)



Rainbow Maze (Page 11)



Eyeball Benders (Page 6)

- 1. Hot-pad mitt
- 2. Matches
- 3. Pig snouts
- 4. Record 5. Birch bark
- o. Birch Dai
- Target (human image)
 Flip top
- 8. Dictionary index tabs
- 9. Q-tips
- 10. Radiator
- 11. Cigar clippers
- 12. Cider press
- 13. Ruler
- 14. Sneaker sole
- 15. Pineapple
- 16. Scissors
- 17. Coke label
- 18. Scrubbing pad
- 19. Crushe'd cars
- 20. Wagon wheel
- 21. Guitar
- 22. Sponge 23. Thinker
- 20. minkor

Why Was this Picture Taken (Page 18)

1. Joe E. Brown, Chatterbox

2. James Cagney, Man of a Thousand Faces

- 3. Lionel Barrymore, Witch of Timbuktu
- 4. Jack Benny, Charley's Aunt
- 5. Ray Bolger, Where's Charlie?

6. Alec Guinness, Kind Hearts and Coronets

Chess Problems (Page 22)

1. There are two solutions: A. White moves his queen one square forward (check), and Black must capture the queen with his rook; White's rook recaptures with check, and Black's rook must take White's rook; White recaptures Black's rook with checkmate.

B. White captures Black's rook with his queen (check), and Black must capture White's queen with his remaining rook; White moves his rook forward to the end of the board giving check, and Black's rook must take White's rook; White's remaining rook captures Black's rook with checkmate.

2. White moves his queen three squares forward. If Black takes White's queen with his pawn, White captures Black's rook with his own rook, giving checkmate. If Black does not capture White's queen (makes any other move), White puts his queen in front of Black's king, giving checkmate.

3. White moves his queen forward three squares. (The queen threatens to checkmate by capturing the pawn in front of Black's bishop next move.) This leaves Black with three options: A. If the pawn in front of the bishop captures the queen, White's bishop moves up next to the knight, giving checkmate.

B. If the pawn in front of the rook captures the queen, White's bishop checks from the right edge of the board, Black blocks check with his rook, and White's rook moves forward to the end of the board, giving checkmate.

C. If Black moves his rook instead of capturing White's queen, the queen takes the pawn in front of the bishop (check), Black moves his king to the only retreat square, and the queen captures Black's bishop, giving checkmate.

On most other starts by White, Black can either move his bishop or advance the pawn in front of his king, delaying checkmate beyond three moves.

What Makes Crossword Puzzles Tick? (Page 23)

1. Isolated areas-this puzzle is really five separate puzzles.

2. A two-letter word (in center vertical row) and no fewer than nine squares without perpendicular interlocks.

Excessive black-to-white ratio (21%).

4. A large proportion of short words-

few long words. 5. Too big a format (27x27), with well over 200 words.

Not the same upside down as right side up (flawed at least twice in this regard).

All The News That's Fit to Fashion (Page 42)

(From the Galleries catalogue of Fashion Institute of Technology.)

1. 1860—Collarless jacket of off-white wool with silk taffeta plaid skirt. Jacket gift of Margaret Riggs; skirt gift of Mrs. Albert Van Nostrand.

2. 1957—Short-sleeved dress of light blue silk taffeta by Balenciaga. Gift of Rodman Heeren.

3. 1920—Tunic of crème silk crepe with matching underdress. Gift of Mrs. C. Phillip Miller.

4. 1855—Short-sleeved dress of yellow taffeta. Gift of Mrs. Van Nostrand.

 1887—Dolman of brown velvet trimmed with ostrich; bodice and skirt of mocha silk taffeta trimmed with cut velvet piping. Dolman gift of Emma Crompton Trainer; bodice and skirt gift of Mrs. Van Ness.

6. 1925—Black wool-knit swimsuit with red and white appliqué detail. Gift of Edith Raymond Locke.

7. 1967—Long-sleeved overblouse of turquoise silk chiffon covered with iridescent paillettes; matching underdress, by Donald Brooks. Gift of Lauren Bacall.

8. 1932 –Sleeveless dress of pleated peach silk chiffon with matching bolero; peach silk crepe slip. Gift of Mrs. Adam Gimbel.

9. 1977-Black jersey bikini. Gift of Jantzen, Inc.

10. 1965—Pistachio wool coat with matching skirt; pair of crème kid boots and hat of natural straw by Courrèges. Gift of Mrs. Lewis Iselin, Jr.

11. 1915—Suit of beige basket wool weave trimmed with silk tassels and black satin. Gift of Mrs. William Rocke-feller and Harriet Van Kennen.

12. 1922—Sleeveless underdress of silk crepe in multi-colored oriental motif; wrap dress of black satin. Gift of Mrs. Jerome Kilty.

13. 1880—Long dolman of gold and rust; dress of brown silk taffeta. Dolman gift of Peggy Westerfield; dress gift of Margaret Riggs.

14. 1976—Jump suit and jacket of red silk jersey by Galanos. On loan from James Galanos.

15. 1845—Dress of mauve moiré taffeta. Purchase.

16. 1820—Tennis dress of sheer linen with short puff sleeves. Gift of Thornton C. Thayer and Mrs. Waldo McCutcheon McKee.

17. 1947—Strapless black taffeta dress with bodice and scarf of pink and white striped silk by Schiaparelli. Gift of Alexandra Danilova.

18. 1903—Bodice and skirt of gray silk net with silk taffeta appliqués. Gift of Sons of the Revolution.

Book Shelf (Page 46)

First problem: There is really only one excellent play in this situation. Play two of the threes from B11 to W8 hitting Black's blot on this position. Then play the builder from W10 to W7 for the second hit, and continue with the same piece to W4.

This play hits two of your opponent's pieces, covers your blot on W4, and leaves no vulnerable blot of your own. Only the cardinally greedy would expect more than that from a single back-gammon play.

Second problem: No matter how you play it you cannot win the game unless you throw a high doublet on your next turn (and Black does not.) The best move is to play the three outside (W11-W8) and then play the one W6-W5. This gives you a chance to win with throws of (5,5) and (6,6). Any other play eliminates the (5,5) throw.

It can be shown over and over again that rushing inside your inner table is a serious error. You should make a similar play with throws of (4,1), (2,1) and (1,1).

U.S. History Test (Page 48)

The correct answer is marked by an asterisk (*), and the numbers show the percentage of students choosing each option.

1. A. 15 B. 78* C. 5 D. 2 (A) is wrong because the French and Spanish were as aware as the British of the economic potential and, in fact, acted earlier to exploit it. Only students who scored low generally missed this question.
2. A. 16 B. 38 C. 35* D. 11

 A. 16 B. 38 C. 35* D. 11 Students choosing (B) did not realize that Puritans insisted on religious conformity. Some very good students chose (A), correctly identifying Roger Williams with religious liberty but overestimating his impact.
 A. 56* B. 7 C. 31 D. 6

3. A. 56* B. 7 C. 31 D. 6 Protection of property, the most popular wrong answer (C), was commonly cited, with life and liberty, as an 18th Century right, but Jefferson used "pursuit of happiness" because he thought Europeans would be more likely to sympathize with it. 4. A. 9 B. 48 C. 16 D. 28*

A. 9 B. 48 C. 16 D. 28* | 1920's, and (B) and (D) to issues i
 (B) the power to declare Congressional 1930's. Eastern students did b acts unconstitutional was never given (66%) than those in other regions.

to the courts directly. The Supreme 22. A 64* B.9 C. 13 D. 14 Court first asserted this authority in its 1803 decision in Marbury v. Madison. 5. A. 2 B. 73* C. 11 D. 14 A "peak" topic most students knew.

A "peak" topic most students knew.
Above average scores were achieved by Western students (78%) and by students identifying themselves as politically left or right (76%).
A. 10 B. 24 C. 7 D. 59*

6. A. 10 B. 24 C. / D. 59* As in most questions on diplomacy, male students did better than females (66% to 51%). Commercial treaties negotiated shortly after the Monroe Doctrine provided that the United States be put on a par with Latin America's other

trading partners. 7. A. 41* B. 11 C. 22 D. 25 Black students did about as well as whites in knowing that Jacksonian Democrats were not characteristically hostile to slavery. Students in the political middle outscored students on the left

8. A. 2 B. 5 C. 84* D. 4
9. A. 16 B. 48* C. 6 D. 26
10. A. 9 B. 37 C. 7 D. 43*
11. A. 57* B. 12 C. 10 D. 18
On these four related questions, students overwhelmingly knew the purchase of Louisiana and Alaska, but had difficulty with the other means of territorial expansion. Students tended to conrial expansion. Students tended to con-

The expansion. Students tended to confuse territories added by annexation, such as Texas, with those acquired by war or the threat of seizure, such as the Mexican Cession that included California.

12. A. 4 B. 58* C. 31 D. 6 Although (C), the most popular wrong answer, was what the abolitionists wanted, Lincoln's policy was to contain slavery. The question differentiated sharply between the most able students and the least able. It was answered correctly by 82% of the top scoring third of the students compared to 39% of the lowest third, a greater than average spread between the two

groups. 13. A. 17 B. 36 C. 32* D. 15 (B), which drew the most responses and attracted a large number of the best students, reflects a common myth. The post Civil War corruption in the North was as bad as the South's; the carpetbaggers were not entrenched but rather were turned out of office in most southern states before the end of Reconstruction; and blacks achieved a short-lived majority in only one state legislature, South Carolina's.

short-lived majority in only one state legislature, South Carolina's. 14. A. 39* B. 32 C. 23 D. 6 15. A. 32 B. 21 C. 44* D. 3 16. A. 1 B. 3 C. 3 D. 93* Students made their best score of any guestion on the test in identifying Henry Ford, the man who said "History is bunk," but the wrong answers on 14 and 15 suggest a blurring of the images of Carnegie, Morgan and Rockefeller. In 1943, 71% of the students identified Rockefeller correctly as an oil tvccon.

17. A. 23	B. 6	C. 65*	D. 5
18. A. 43	* B. 13	C. 23	D. 20
19. A. 24	B. 50*	C. 7	D. 19
20. A. 13	B. 32	C. 4	D. 52*

Students tended to know when the people who populated their region of the country had arrived. Westerners outscored all others, 57 to 49%, on the Mexican immigrants (20); 54% of the Eastern Europeans (19) compared to 43% of Southerners, and Midwestern students scored 49% to 41% for others on the Germans and Irish (18). Blacks did essentially as well as whites on when the slaves were brought in (17). One major misconception was that large numbers of Southern and Eastern Europeans continued to arrive

after World War I. 21. A. 13 B. 15 C. 60* D. 13 More than the usual number of students (17%) simply skipped this question which required fairly detailed knowledge as well as a sense of chronology. (A) refers to an issue in the 1920's, and (B) and (D) to issues in the 1930's. Eastern students did better (66%) than those in other regions.

22. A. 64^* B. 9 C. 13 D. 14 The most popular wrong answers, (C) and (D), did not happen, although there was an antitrust campaign late in the New Deal. Students on the political left were more apt (67%) to get this right, as were students who said their high school courses had emphasized conceptual approaches to history (69%). 22 A 68* B. 11 C. 8 D. 13

As in other diplomatic questions, white males scored the highest and students on the political right or left outscored those in the middle 70% to 66%. 24. A. 10 B. 69* C. 9 D. 11 The phrase "all deliberate speed" did

The phrase "all deliberate speed" did not even occur in the 1954 Brown v. Board of Education decision but in a 1955 Supreme Court decision. Southern students did worst on this, 66%, while Westerners did best, 74%.

Theft at a Séance (Page 50)

Mrs. White powdered her back and shoulders before dressing. You see her long-handled powder puff in picture 3. The thief in grabbing the pearls brushed Mrs. White's shoulder with his sleeve-and acquired the powder mark you can see on the inside of Dark's left sleeve in picture 1. When the Inspector arrived and search was imminent, it became necessary for him to conceal the pearls and trust to luck to getting them back later. Dark chose the decanter on the sideboard. He slipped the pearls in while the Inspector was examining the table-under cover of helping himself to a cigar-thereby altering the level of the wine. It had been at the bottom of the neck when the Inspector first came in (see picture 1) but now (by picture 10) it was at the top. Also the cigar box had been moved. Only one man, Dark, was smoking a cigar, and he had a patch or powder on the inside of his left sleeve where he would naturally brush Mrs. White's shoulder in reaching over from the place where he was sitting. Dark was clearly the Inspector's man.

Night Watch (Page 53)

I 1. Probably three miles or more, because otherwise the sidelights would also be visible. Note also that the masthead lights appear to be low on the horizon. 2. Vessel to the left.

II 1. No. These are two power-driven vessels without tows. 2. Left—Meeting your ship on reciprocal course so as to involve risk of collision. Right—Crossing your bow from right to left, so as to involve risk of collision, 3. Yes, certainly the ship to the left, possibly the ship to the right. 4. Turn to starboard.

III 1. A power-driven vessel towing astern. It is towing from right to left across your bow. 2. Length of tow does not exceed 200 meters. It is towing two other vessels. 3. Yes. 4. Turn to starboard.

IV 1. You see three situations. The one on the left is heading to port of you. The one in the center is crossing your bow at an angle, from port to starboard. The one on the right is on an almost reciprocal course. 2. There are two towing vessels. The one in the center is towing behind it a length of tow that does not exceed 200 meters. The one on the right is towing alongside (the tow is secured by cables or heavy warps to the side of the towing ship but is not rigidly constructed as a composite part of the towing vessel). 3. Five vessels or more are involved. You see four of them, however the one in the center is towing at least one vessel behind it. 4. Yes, you are on a possible collision course with both the vessel in the center and to the right. 5. You should turn to port.

V 1. You see three separate situations. The one on the left is crossing your bow from port to starboard, the one in the center is coming at you dead on, and the one slightly to the right is also coming at you almost dead on 2 All three are tow situations. The vessel on the left is pushing another vessel ahead of itself, and they are not rigidly attached to each other. The vessel in the center is most likely also to be pushing a tow ahead of itself, although it might also be pulling an unusually wide tow behind it. The vessel on the right is towing one or more vessels behind it, the tow being over 200 meters long (which is the reason for the three white lights on its forward mast). 3. At least six vessels. 4. Yes. 5. Turn to port, so the left pushing vessel would be out of your way by the time you reach its present location.

States Of Mind (Page 54)

1. Arizona. It's surprising how many people think the Grand Canyon is in Colorado.

2. New York. This map was drawn in 1897. Harlem River is the clue.

3. Michigan. Where Upper and Lower Peninsulas meet.

 Virginia. Civil War buffs are likely to have known this one.

5. Wyoming. Devils Tower, now a national monument, was a famous landmark in pioneering days.

6. Illinois. Large-scale map of a small town near where the Missouri River joins the Mississippi. This was a toughie, no doubt.

7. Montana. Lewis and Clark slept here. The three forks are the Madison, Jefferson, and Gallatin rivers, which join to form the Missouri.

8. Oklahoma's OK. Anything else is pretty dumb.

 Washington, D.C. Not a state, and we'll bet the state names in the avenues didn't fool you.

10. Pennsylvania. Conestoga River may sound like the old west, but Pennsylvania's where the prairie schooners came *from*.

11. South Dakota. As everyone knows, that's where Sitting Bull was buried (see #14). Mobridge is short for Missouri Bridge.

12. Texas, near the old Rio Grande.

 lowa, another toughie, taken from the edge of a map.

 List Coge of a map.
 North Dakota. As everyone knows, that's where Sitting Bull was buried (see #11).

15. Kansas. Matt Dillon of old Dodge City would have known this one.

16. Idaho. Sun Valley is the clue, not Atlanta, of course.

17. The Moon. Copernicus Crater. Did you guess it? (Not yet a state.)

18. Alaska. Seldovia was an old Russian settlement.

 Louisiana, the only state whose counties are called parishes. The view is of the Mississippi going out to sea.
 Colorado. Crooked clues were Idaho and St. Louis. Mining, "Boulder", and high altitude were the straight clues.

21. Missouri. Mark Twain plus the unique lettering system of highways add up to a right answer.

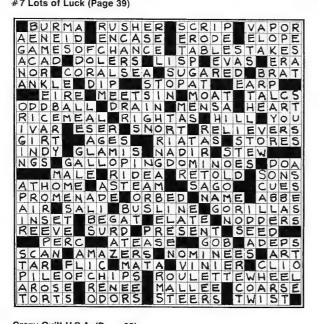
#1 Armchair Safari (Page 25)



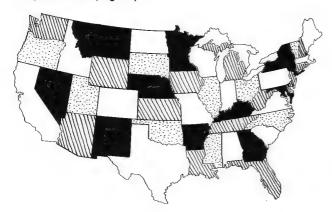
#4 Boys of Summer (Page 31)

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#7 Lots of Luck (Page 39)



Crazy Quilt U.S.A. (Page 28)



#3 With a few low blows (Page 29)



#5 Pioneering Spirit (Page 31)



#2 Flights of Fancy (Page 27)

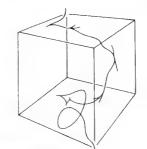


#6 Murphy's Law (Page 35)



C An N R C Е E С Е U Р U K F EW SE LESOPR A UMMER(YNNEL)

Plumber's Problem (Page 34)



Doodles (Page 29)

- 1. WHALE HAVING A HICCUP
- 2. CENTIPEDES SHAKING HANDS

Cine-Maze (Page 28)

- 1. LADY (Funny Lady)
- INFERNO (Towering Inferno)
- 3. MARRIAGE (Scenes from a Mar riage)
- 4. PEPPER (The Great Waldo Pepper) 5. ALICE (Alice Doesn't Live Here Any More)
- 6. INFLUENCE (A Woman Under the Influence)
- 7. LENNY (Lenny)
- 8. DETAIL (The Last Detail)
- 9. BICYCLE (The Bicycle Thief)
- 10. PIECES (Five Easy Pieces)
- 11. SEDUCTION (The Seduction of M(mi)
- 12. TANGO (The Last Tango)
- 13. WEEKEND (The Lost Weekend)
- 14. WIND (Gone With the Wind)
- 15. POSEIDON (The Poseidon Adventure)
- 16. SUMMER (Summer of '42)
- 17. SPLIT (California Split)
- 18. SUPERSTAR (Jesus Christ Superstar)
- 19. PLANET (Planet of the Apes)
- 20. PAPER (Paper Moon)
- 21. TALL (Walking Tall)
- DOLPHIN (Day of the Dolphin) 22.
- 23. KID (The Heartbreak Kid)
- 24. DRUM (Bang the Drum Slowly)
- 25. GREEN (Soylent Green)
- 26. ROLLING (The Rolling Stones)

Evenings that memories are made of so often include DRAMBUIE.



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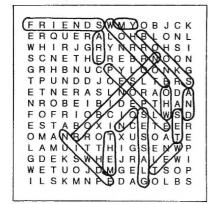
Growing Crazy (Page 26)

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Find the Presidents (Page 26)

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EMF	DS	TO	TL	EV	E	S	0	Ô	R	F	R	E	0	Т
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Phrase-Maze (Page 34)



Friends are people who borrow my books and set wet glasses on them .-Edwin Robinson

Non-Periodic Tessellation (Page 32)



Note-Able People (Page 30)

SHRBGDONTQSVDCXGHPLJMKNVWZLCRIHNOS EFLGPKM<u>QOWALLANK</u>UBEN<u>STEINJU</u>NIORQSV LX LMQR X PAULSIMONGMPZCIEFARTATMGFELTOL GROSEVEVTFKNADILNWFGHCADBZTQXVRTAOHAL ABOTSRENOOZGEORGEVKCIMMIZNODGARBUNKEN ELOTHOTZUBENSONDKAKEBONNIERAITTEDHRQO IKRAPEUIPPERPWETIMUBLINDARONSTADTLAPL EXAMETNBNNOTXTZFOBDTANAOSTLICKSHOOPER MURDALAPREHSTEVIEWONDERTONLAEVAHEWWON STFCDXDZOOMERETRAIVLOWOUTTIIZZAERSIEH YDDDUMOLCUDLBLMERNROBBOFTNXIKRREDDJY ZEJONDOPPOSISEUDTDUMMOULTUSSDNAN NOTZ LEMDNCELVTBENPARA XLMQRXPAULSIMONGMPZCIFFARTA L MGFE Т BROSH GSTANZCADEALLASEGNATSURA MORFLIATEDNOMOLOSF<u>OTNEME</u> IUGS SURAPRVS TN JDU E EOOUSPQZDLPIKRENSRAEPHPETERF RAMPTON

Be a Sport (Page 30)

A E K A R E L L I M N M C Y A N B G O E A T R T D N G B L Q O Z Z L E A N SARWBW DAPS (VN(HODPGFORLHLTEIZORAENEDWP HRSLPS BGFAFTE EAIBYIEAARKNGPUOLAITGNV IAITGNV SP V EVIRGINIA VRHNWADEBSPWMYWYEOBAARONNDAL IJOPNLZQSHEBESTCAHDTELCYND SNBMSOIWJNDRZSNNCTNQY UB B OHAHHENN YO б GNOSR 1 N CXNRTIGFMO REMLAPDLONRAHPSAMS EOPNRBDZMADMARKZE PWALTFRAZIERNOQCGRAJGHNNVEOFQQSPITZXL CNINLQZDVEZSBUSETIBOATNWCSAOZVCPTREM EABZPNOONWUHAMMADALDKAUSONMMSGCTSOMIC CBONIBROLVETREX YRACIEISJUDLEME EKCTUQSDNNPVIN FEOEREMUTVSLEVI(PEC LDLVNAHBARYRSEINEY LOOOLTSRENITAASADT BRODOLTSRENITAASADT RFFEOEREM Т XB F EMEE HE GL 0)0 0/ INME S UBROROEE CAEFAYLNIEESET O Z R CANO S TRONNEK)SZYR Ρ S S Т AHIQSNLF н RSCPAPEQIKRE Δ T. V R/U. NA YORRHN В IOUGE E E F K U H O E D B S E G M L E D T ST I E X O O E R K O X S D O J N B O P M N C V J E A VI H G O Z E B D O C M R H M B I T J E A G E R L D F C D R C K I N E T O R R Z E C D Q A C C G R O B V B E

The Fonz and Friends (Page 36)

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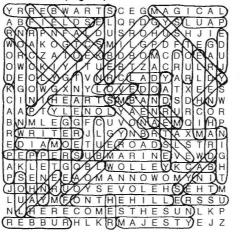
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Beatlemania (Page 36)



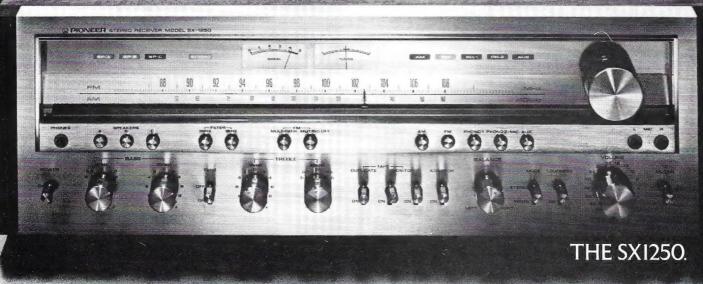
Maiden (Page 37) Rosa Mund (Page 37)

SWDEIRAMSGI Crypto-Search (Page 40)

A. Stream, Master B. Traced, Redact C. Refeather, Hereafter D. Filter, Trille E. Day Broke, Keyboard F. Weather, Wreathe G. Spared, Spread H. Seque Rescue H. Secured, Coursed J. In Route, Routine K. Retrain Teen, Entertainer L. Thread, Dearth M. Altitude, Latitude N. Rascal, Lascar O. The Man, Anthem O. The Man, Anthem P. Sistered, Resisted Q. Train Asp, Aspirant R. No Bore, Oberon S. State Dims, Misstated T. Meal In Tray, Alimentary U. Porter, Report V. Not Hottest, Hottentots W. Fight For, Rightoff X. Editors, Storied Y. Red Ringer, Derringer Z. Worth Darn, Northward Y. Red Ringer, Derringer Z. Worth Darn, Northward



WHEN YOU'RE NOT IN A RUSH TO CATCH UP, YOU'VE GOT THE TIME TO BUILD THINGS RIGHT.



At Pioneer high fidelity, we've always made it a habit to try and introduce incredibly refined high fidelity components long before our competition.

Last year, for example, we brought out the interesting little item shown above. The Pioneer SX1250. The world's first truly high powered receiver. With the unique ability to crank out 160 watts per channel.*

Naturally, the SX1250 caused quite a stir. And it caused our competition to hastily introduce a bevy of their own high powered receivers. But unlike the others, the SX1250 wasn't thrown together in a hurry. And the time and care that went into it can both be seen and heard.

Inside, for example, you'll find that we took the time to shield every critical section from electrical interference. So things like your neighbor's CB broadcasting won't interfere with your listening.

Our pre-amp circuit was designed with the unheard of phono overload level of 500 millivolts. Which means that the loudest, most

dynamic section of any record won't sound distorted.

And where most high powered receivers come with a three, or four gang variable capacitor for FM tuning, the SX1250 features a five gang zinc plated variable capacitor that cleans up FM reception much better. And helps to pull in stations that some three or four gang capacitors can't even touch.

Obviously, as a quick glance at all the buttons and dials above will tell you, these are only a few of the refinements that went into the SX1250.

But the important point is that no matter which Pioneer receiver you buy, you can be guaranteed that it got the same amount of time and energy that went into building the SX1250.

That's what's made our high fidelity receivers number one today with people who care about music.

After all, when you take the time to build things right, people tend to hear about it.



*160 watts per channel minimum RMS continuous power output at 8 ohms, from 20 to 20,000 Hz, with no more than 0.1% total harmonic distortion.

